

Program EVALPLOT
(Version 2018-1)

by

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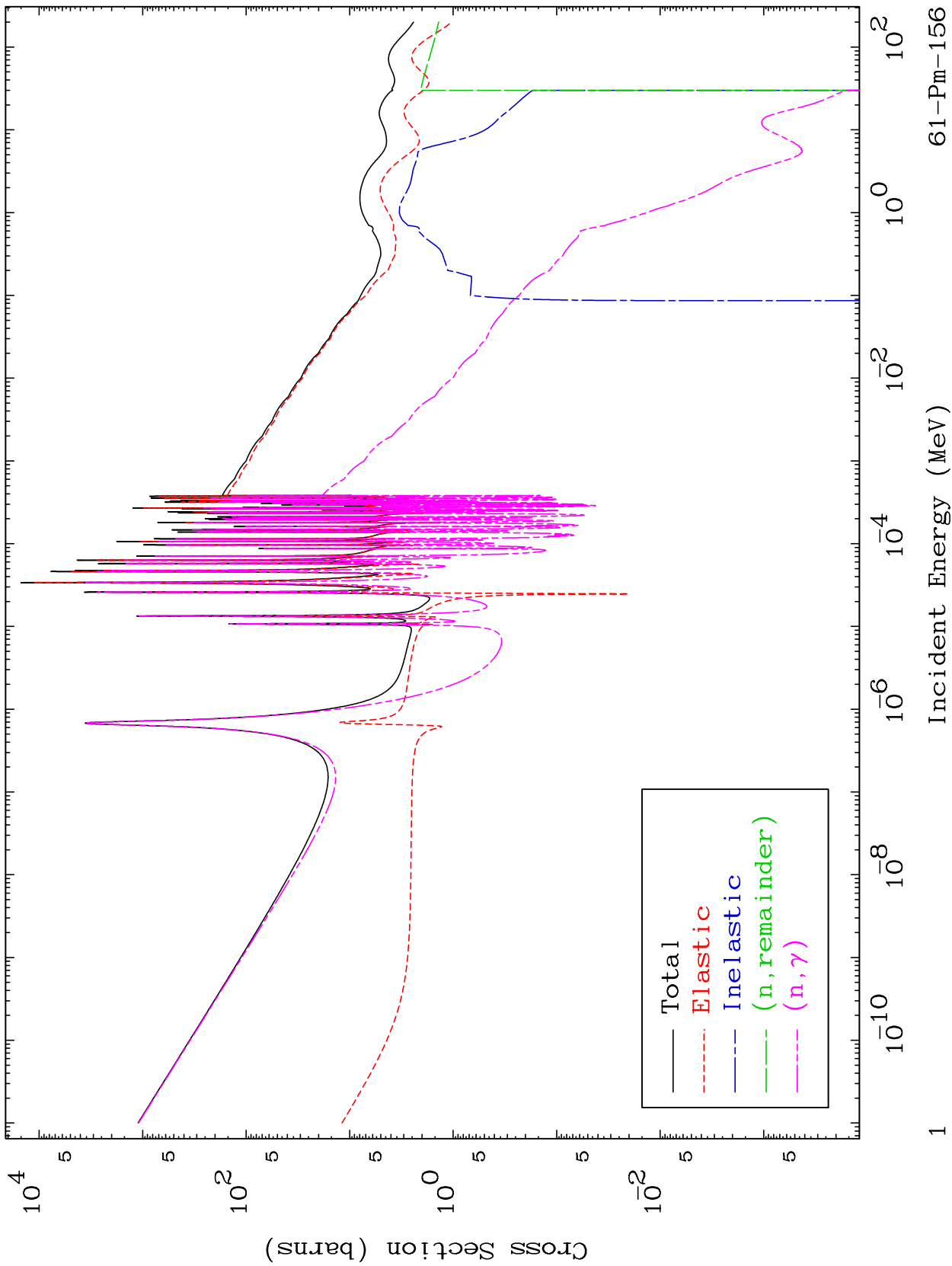
Press Mouse Button to Start

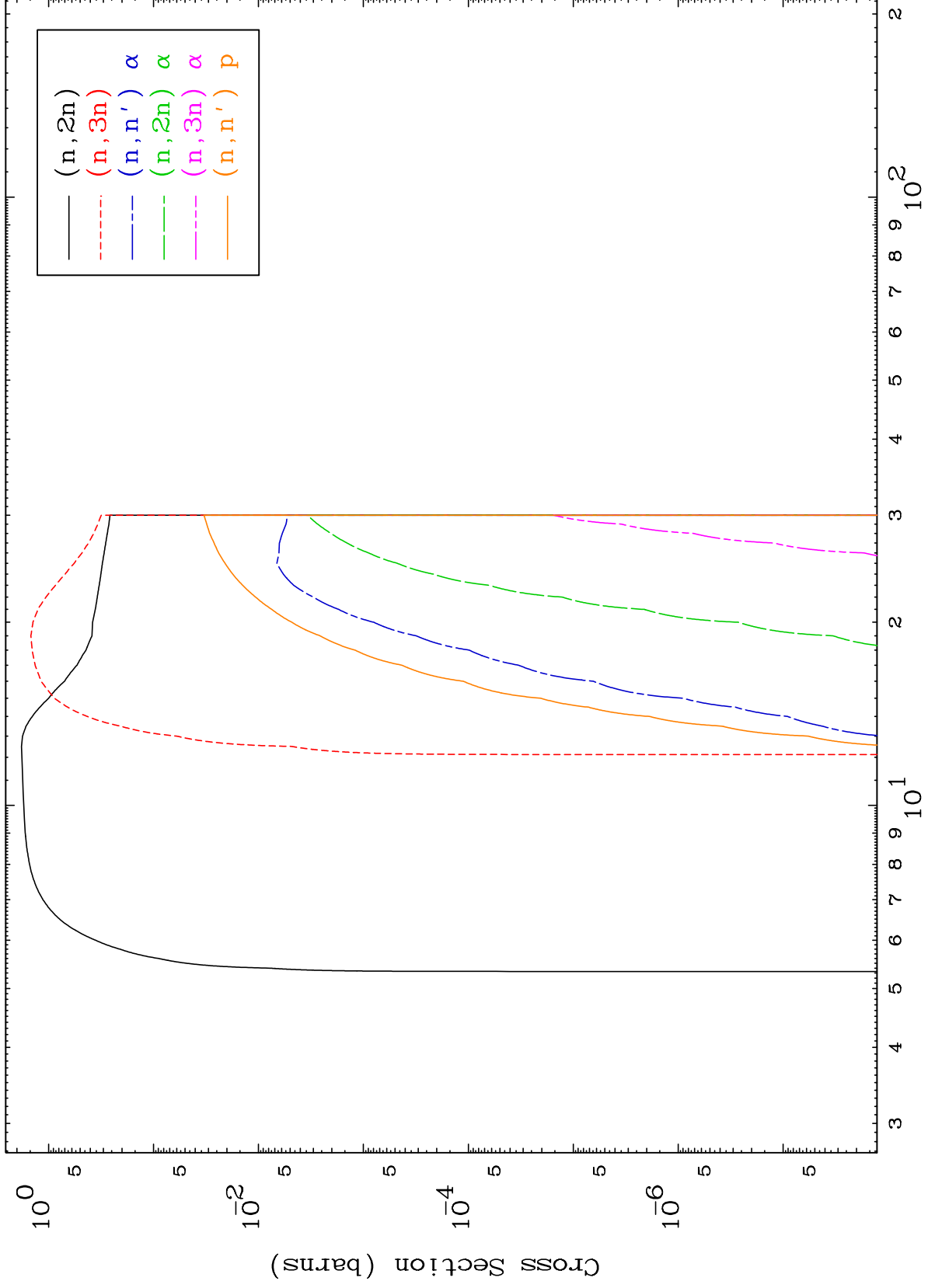
MAT 6176

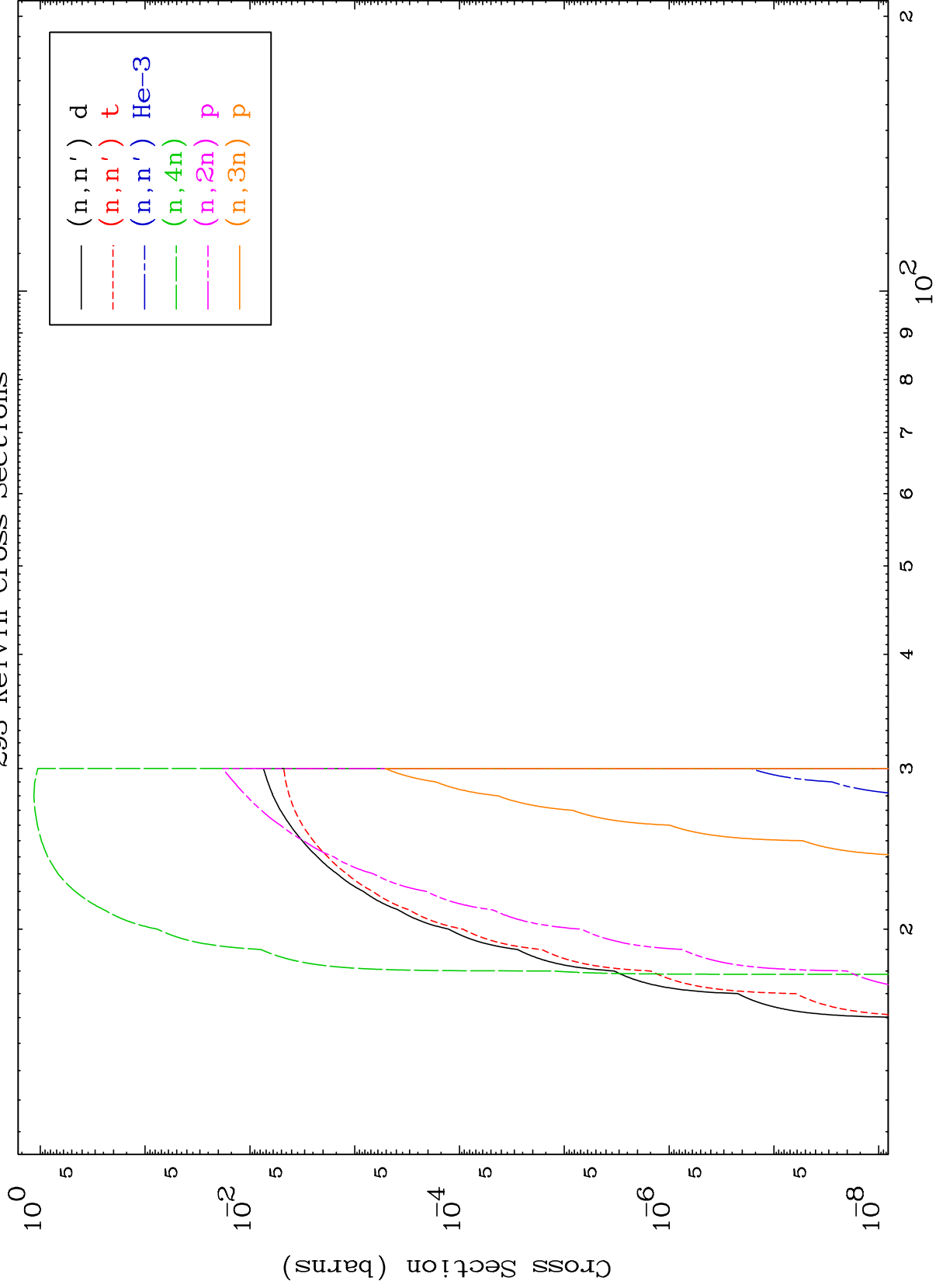
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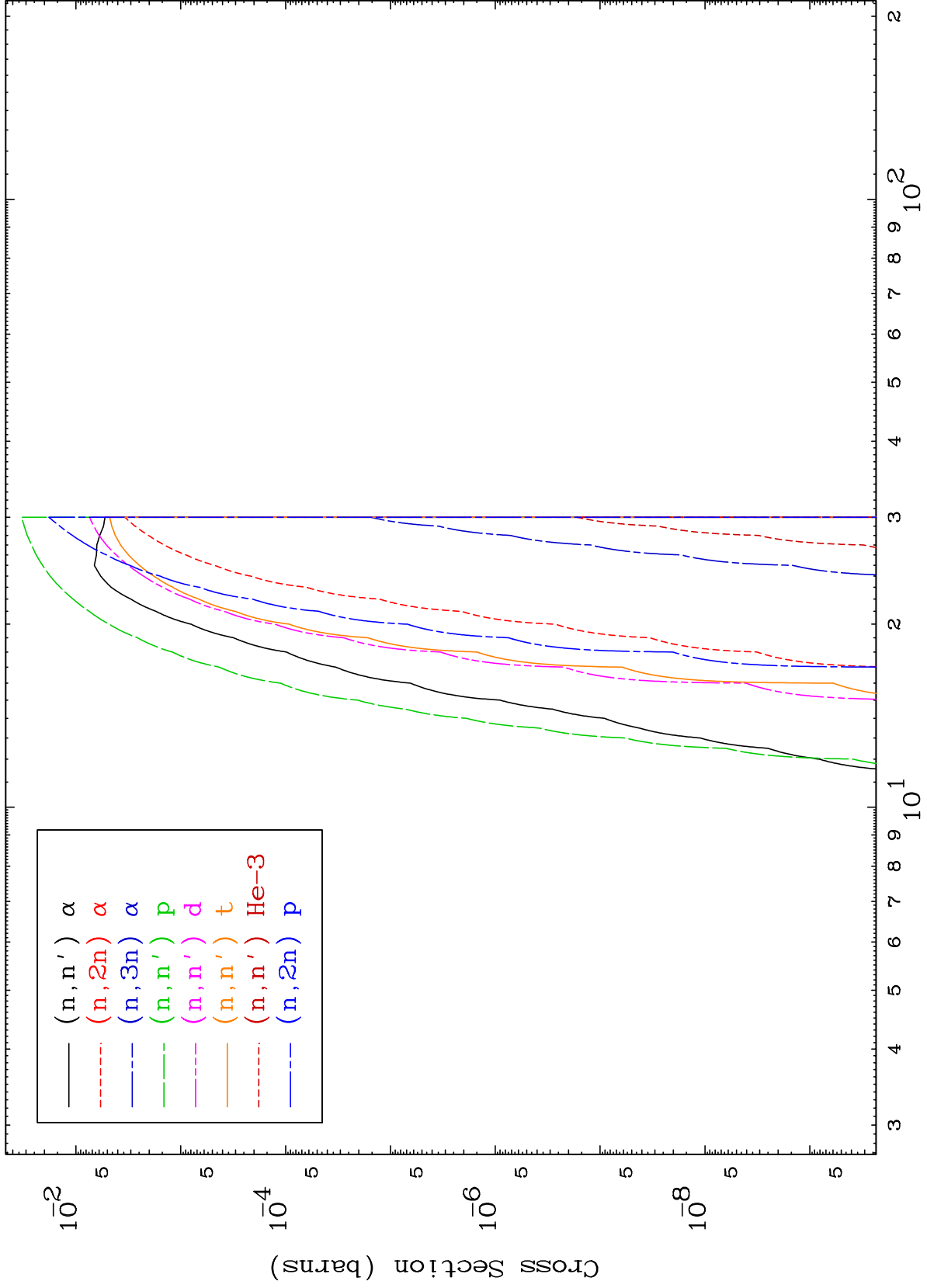
293 Kelvin Cross Sections

61-Pm-156





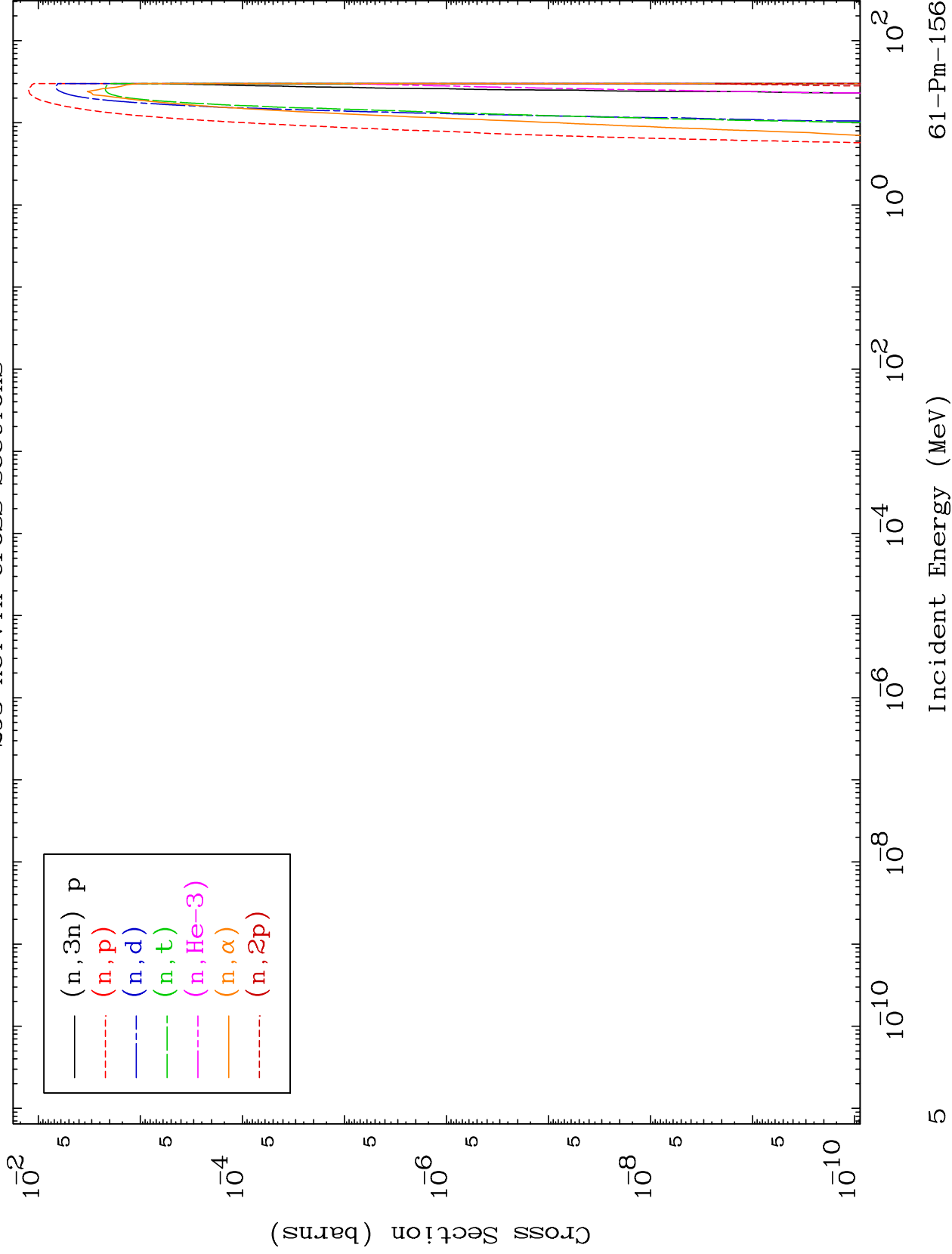




MAT 6176

Charged Particle
293 Kelvin Cross Sections

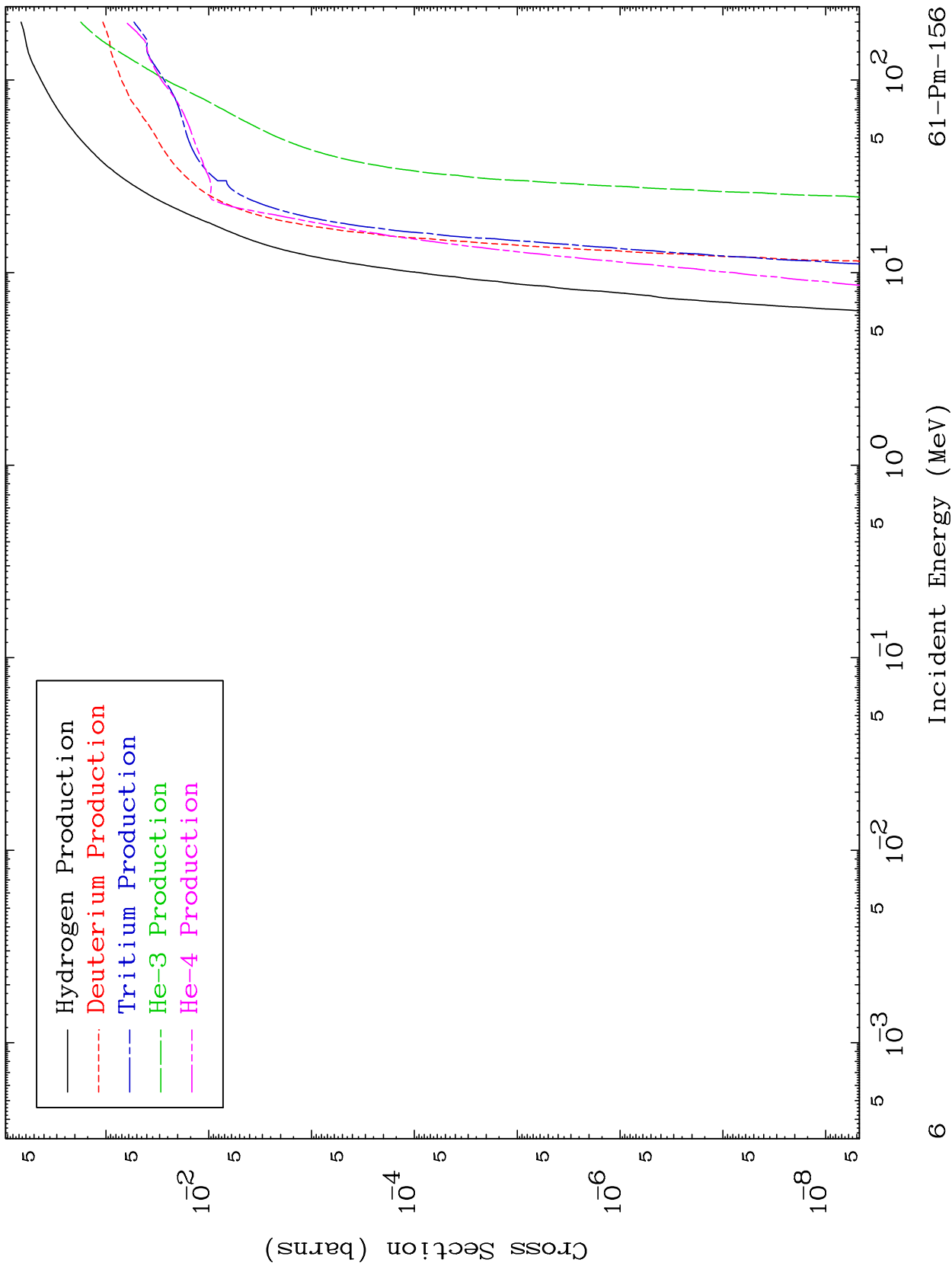
61-Pm-156



MAT 6176

Particle Production
293 Kelvin Cross Sections

61-Pm-156

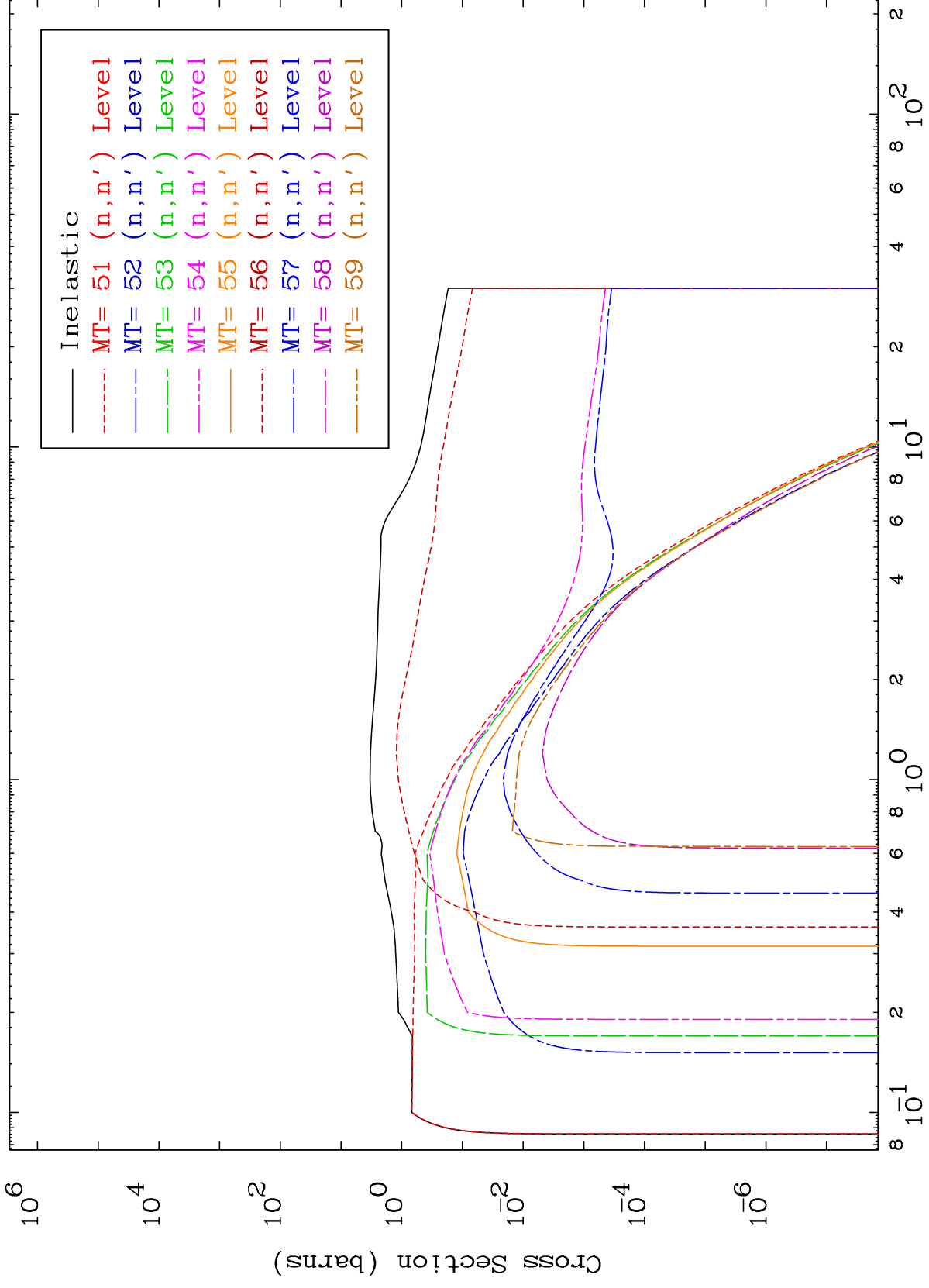


MAT 6176

(n,n') Level

61-Pm-156

293 Kelvin Cross Sections



Incident Energy (MeV)

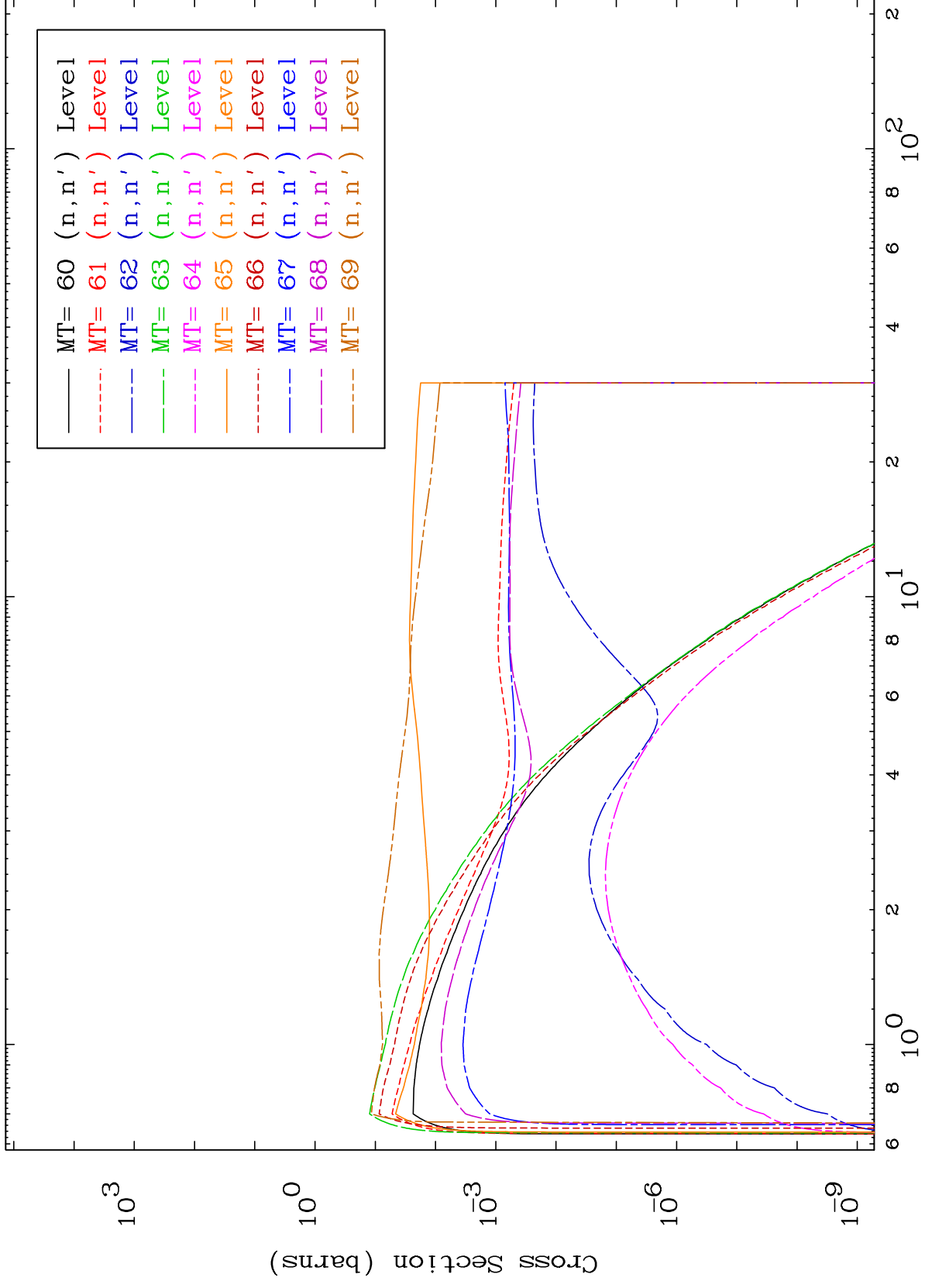
61-Pm-156

MAT 6176

(n,n') Level

61-Pm-156

293 Kelvin Cross Sections

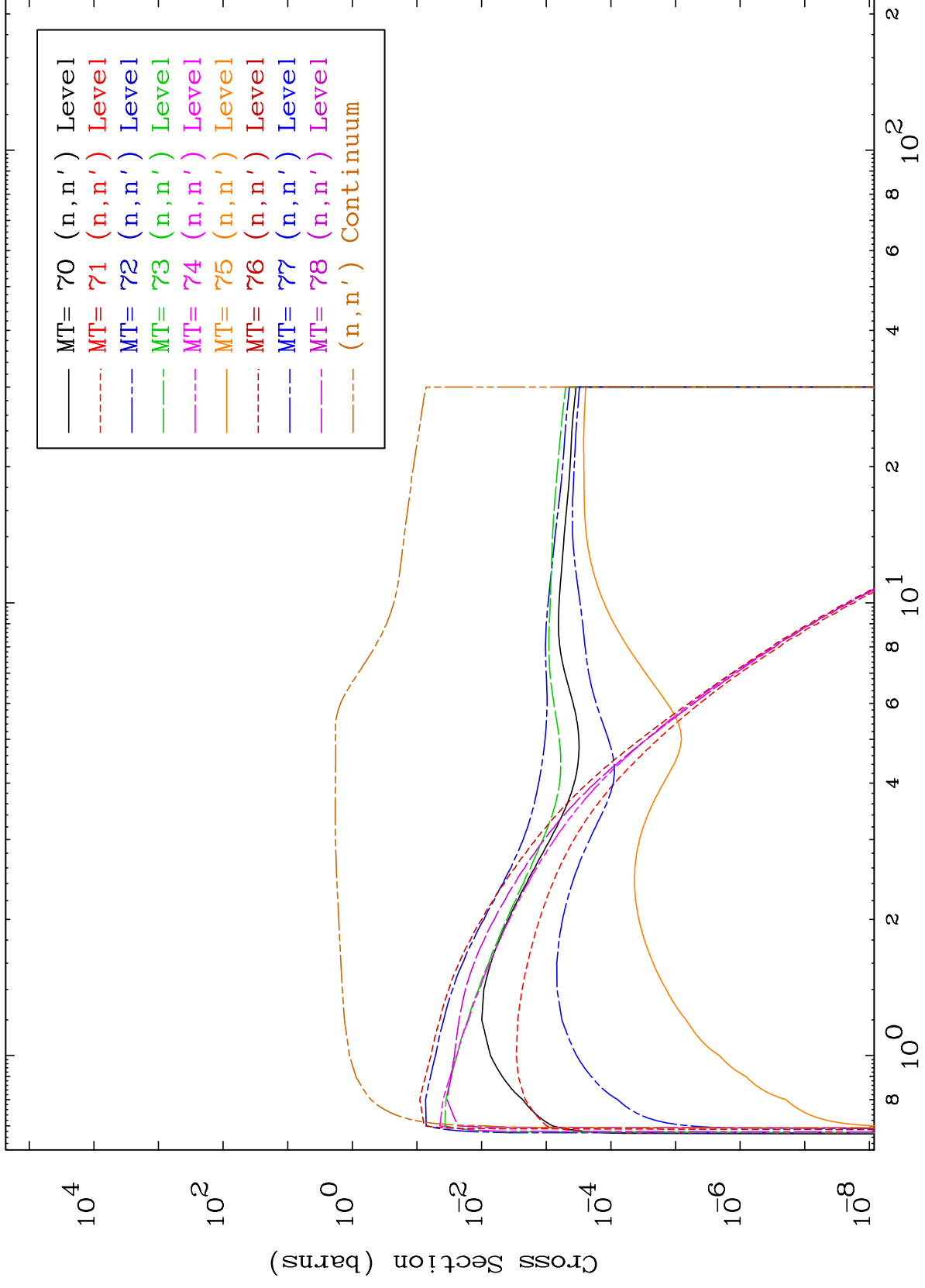


Incident Energy (MeV)

61-Pm-156

8

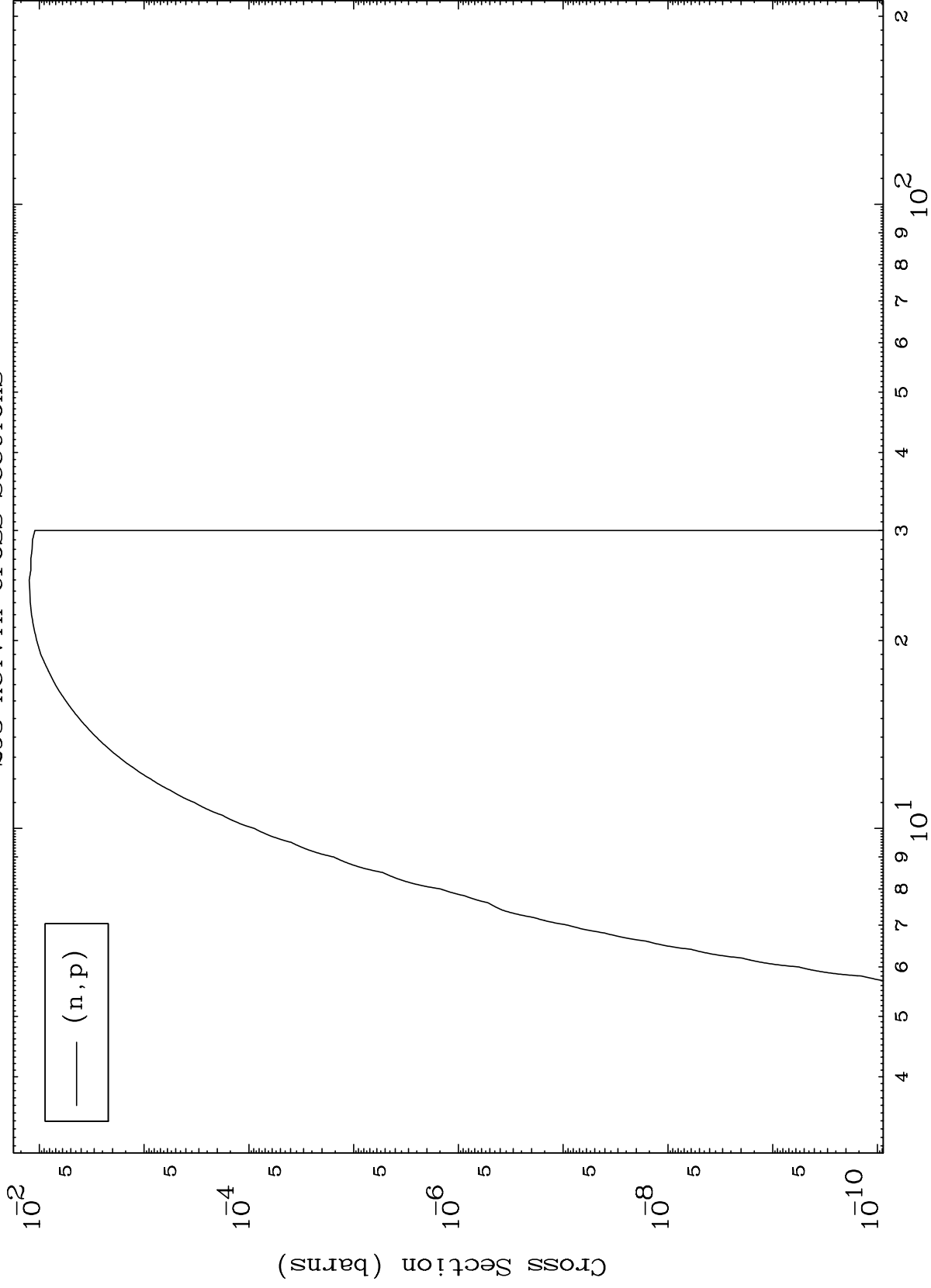
293 Kelvin Cross Sections



MAT 6176

(n,p) Levels
293 Kelvin Cross Sections

61-Pm-156



10

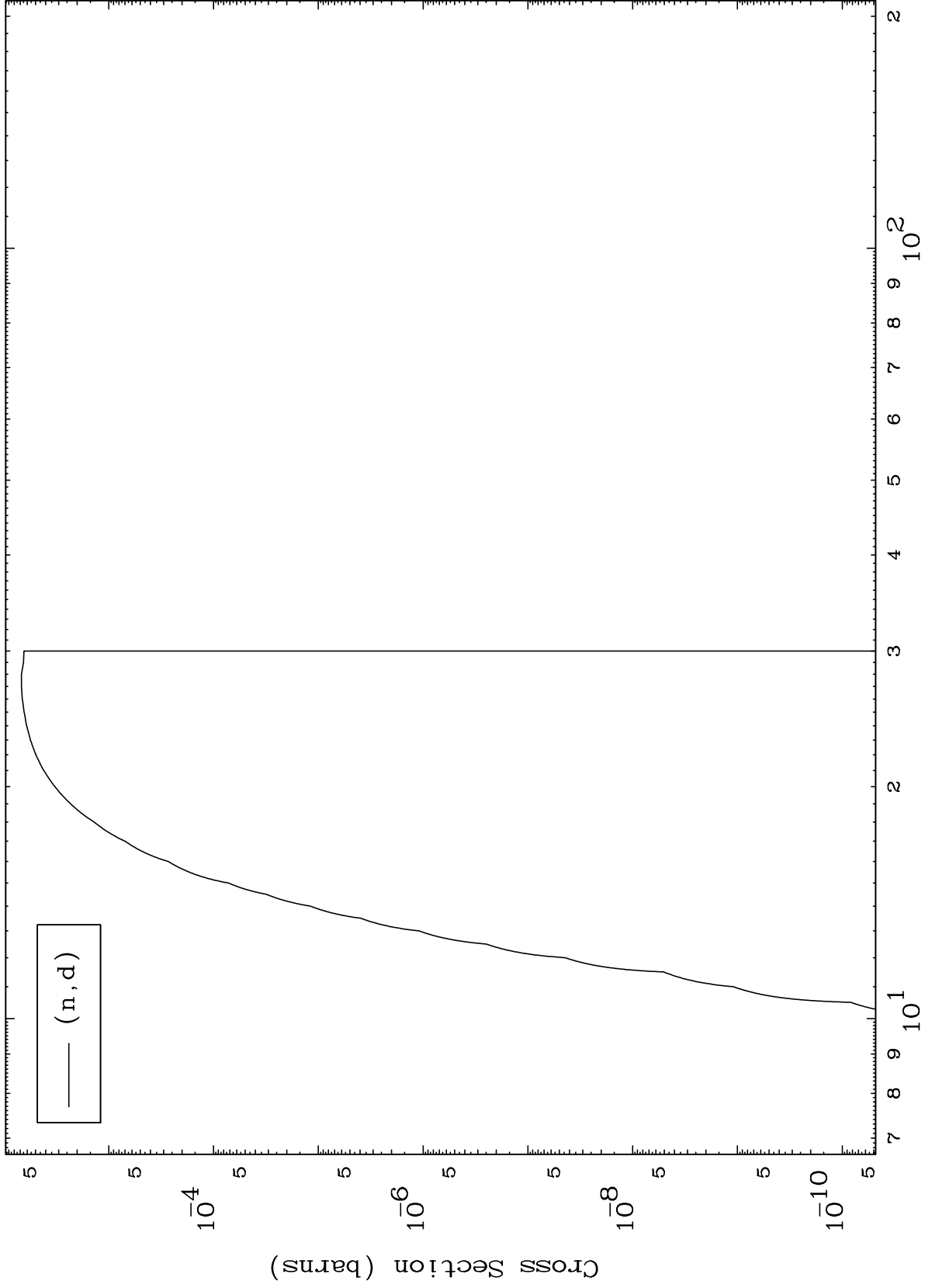
Incident Energy (MeV)

61-Pm-156

MAT 6176

(n,d) Levels
293 Kelvin Cross Sections

61-Pm-156



11

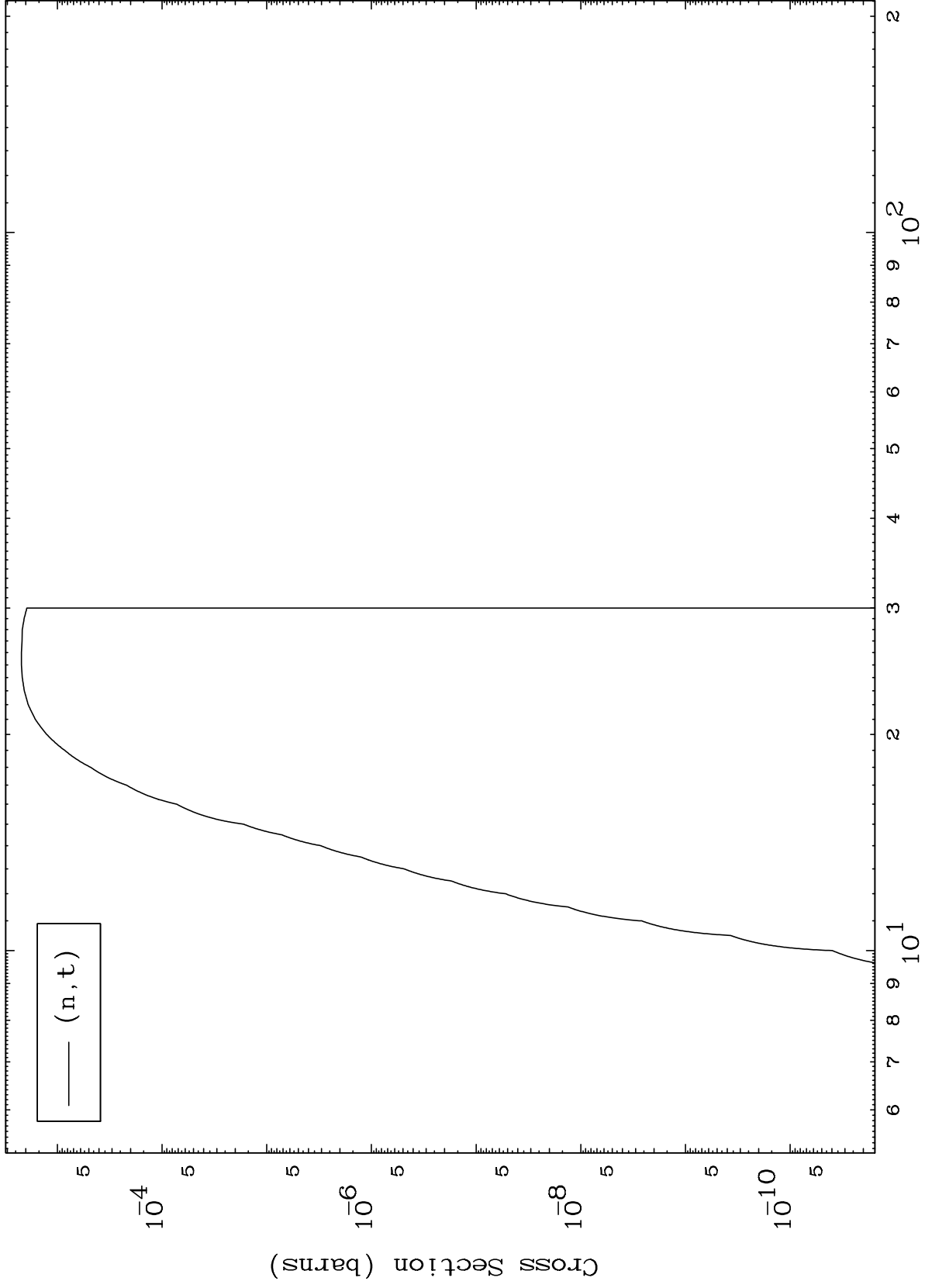
Incident Energy (MeV)

61-Pm-156

MAT 6176

(n, t) Levels
293 Kelvin Cross Sections

61-Pm-156



12

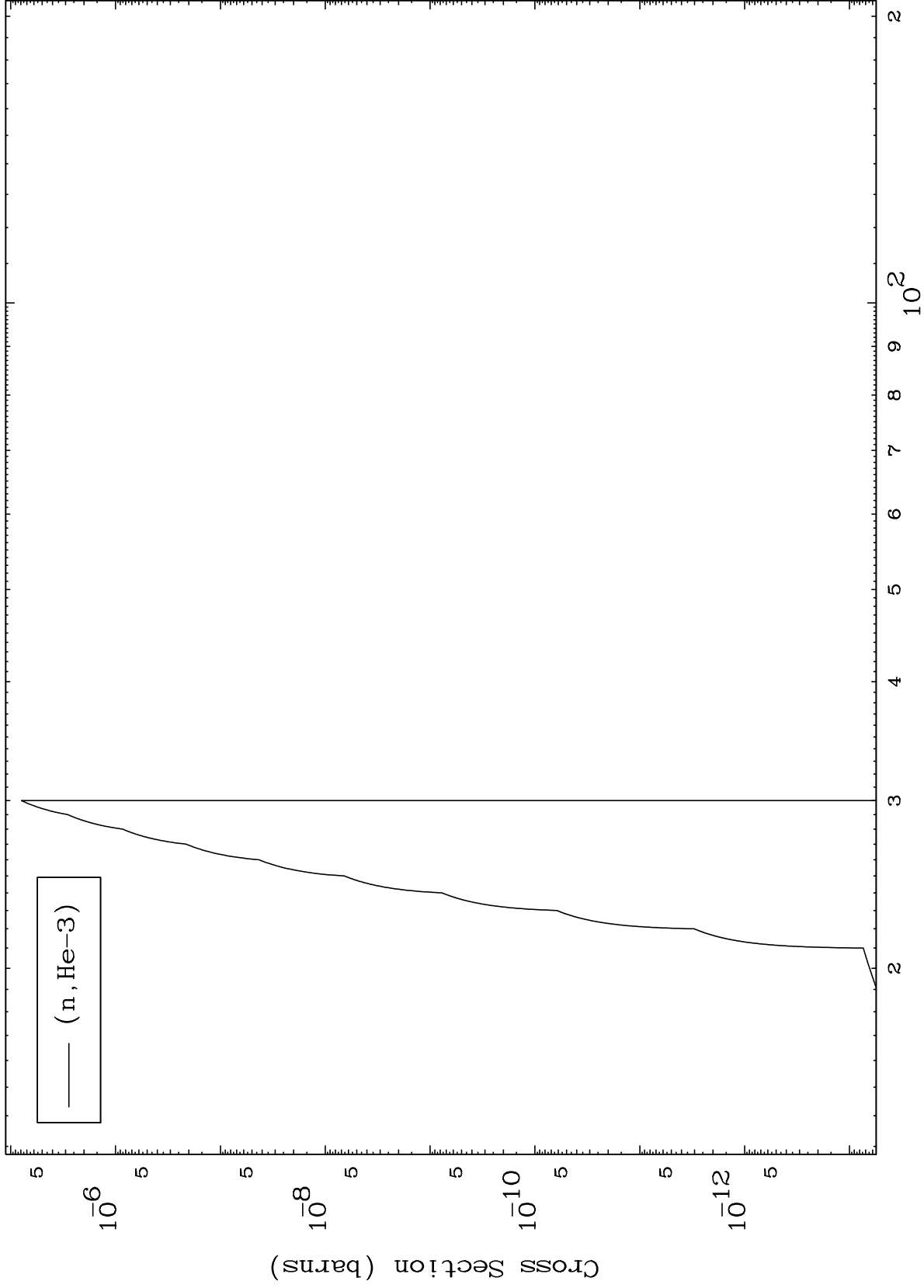
Incident Energy (MeV)

61-Pm-156

MAT 6176

(n,He3) Levels
293 Kelvin Cross Sections

61-Pm-156



13

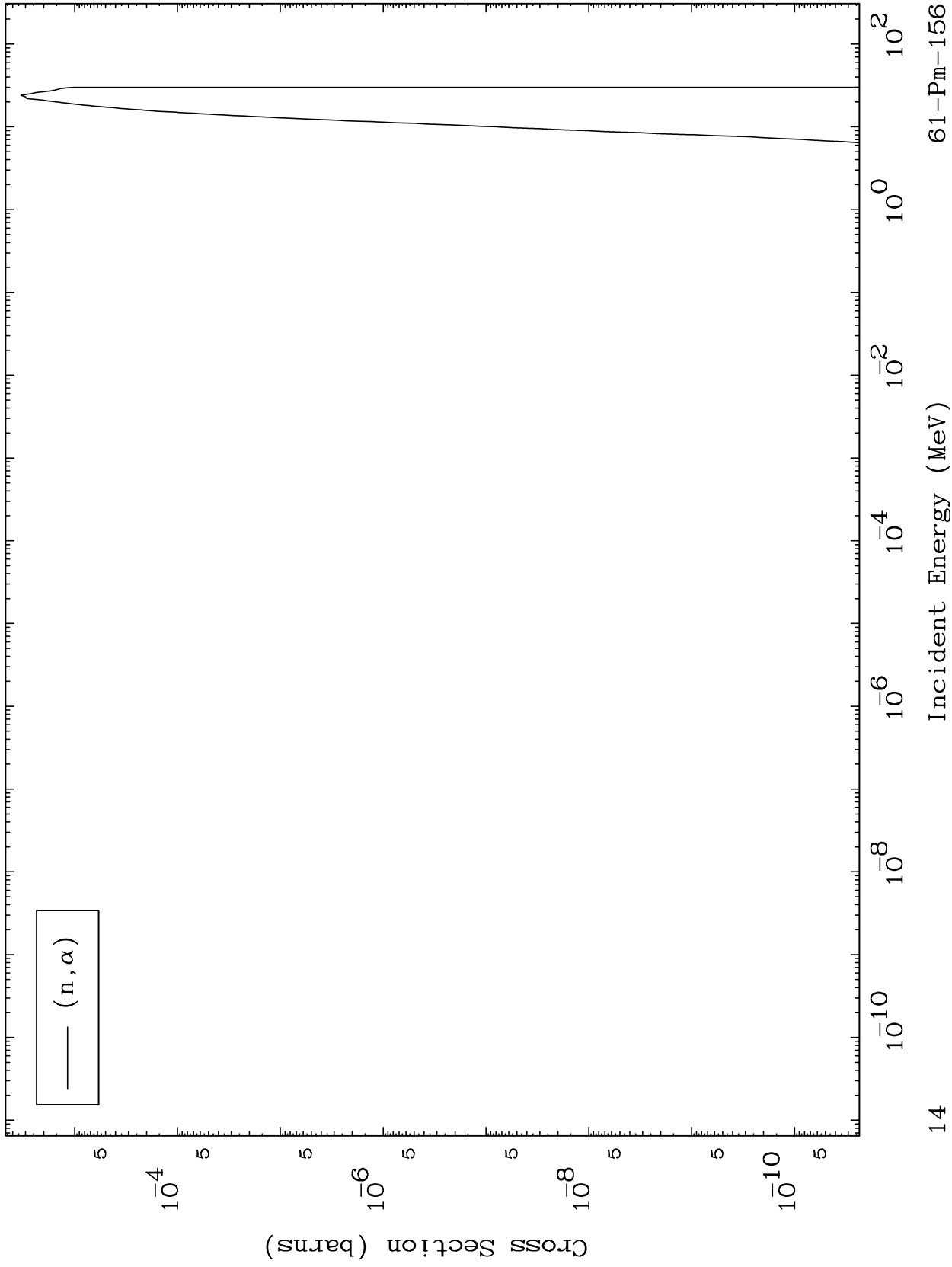
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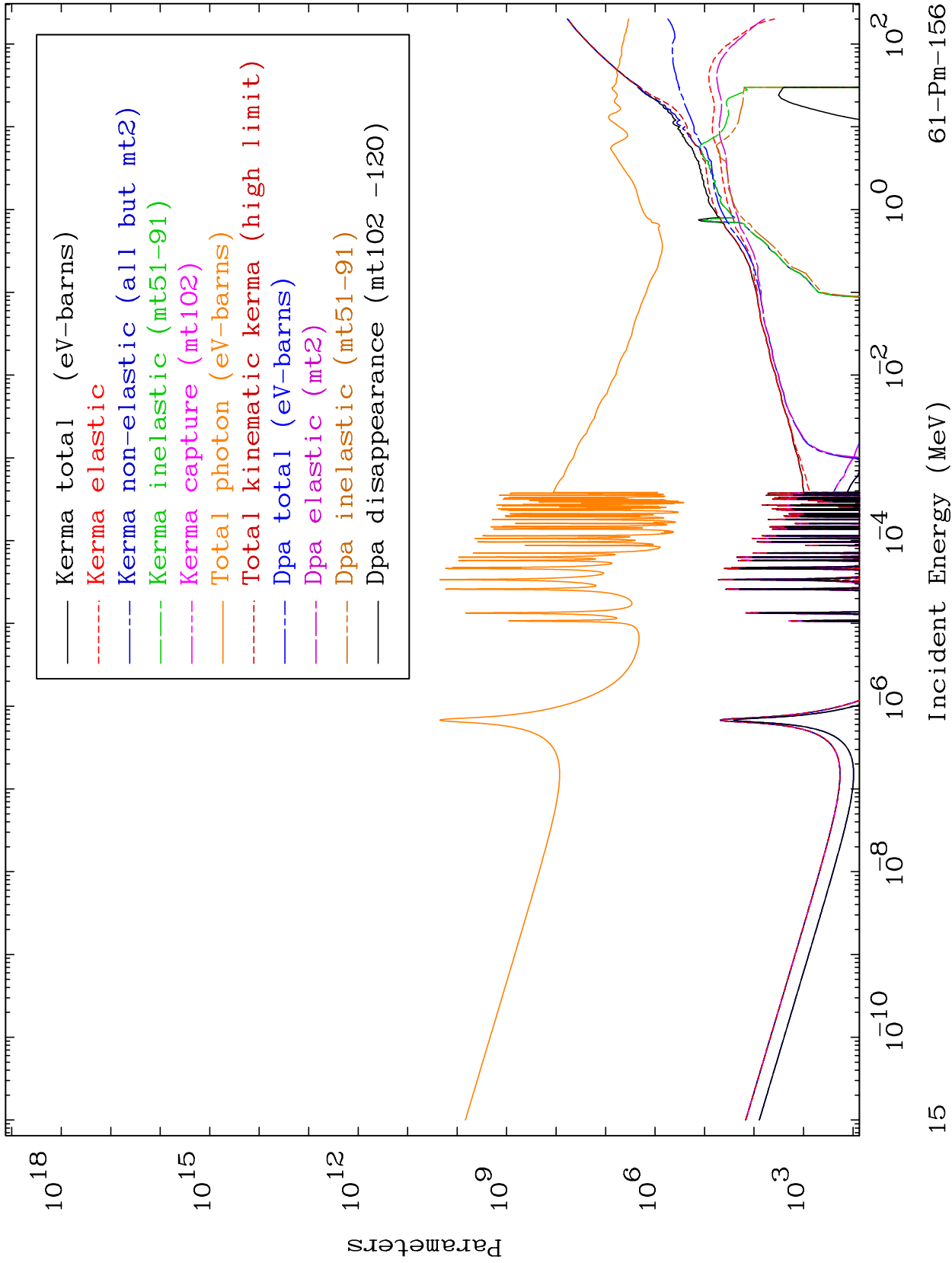
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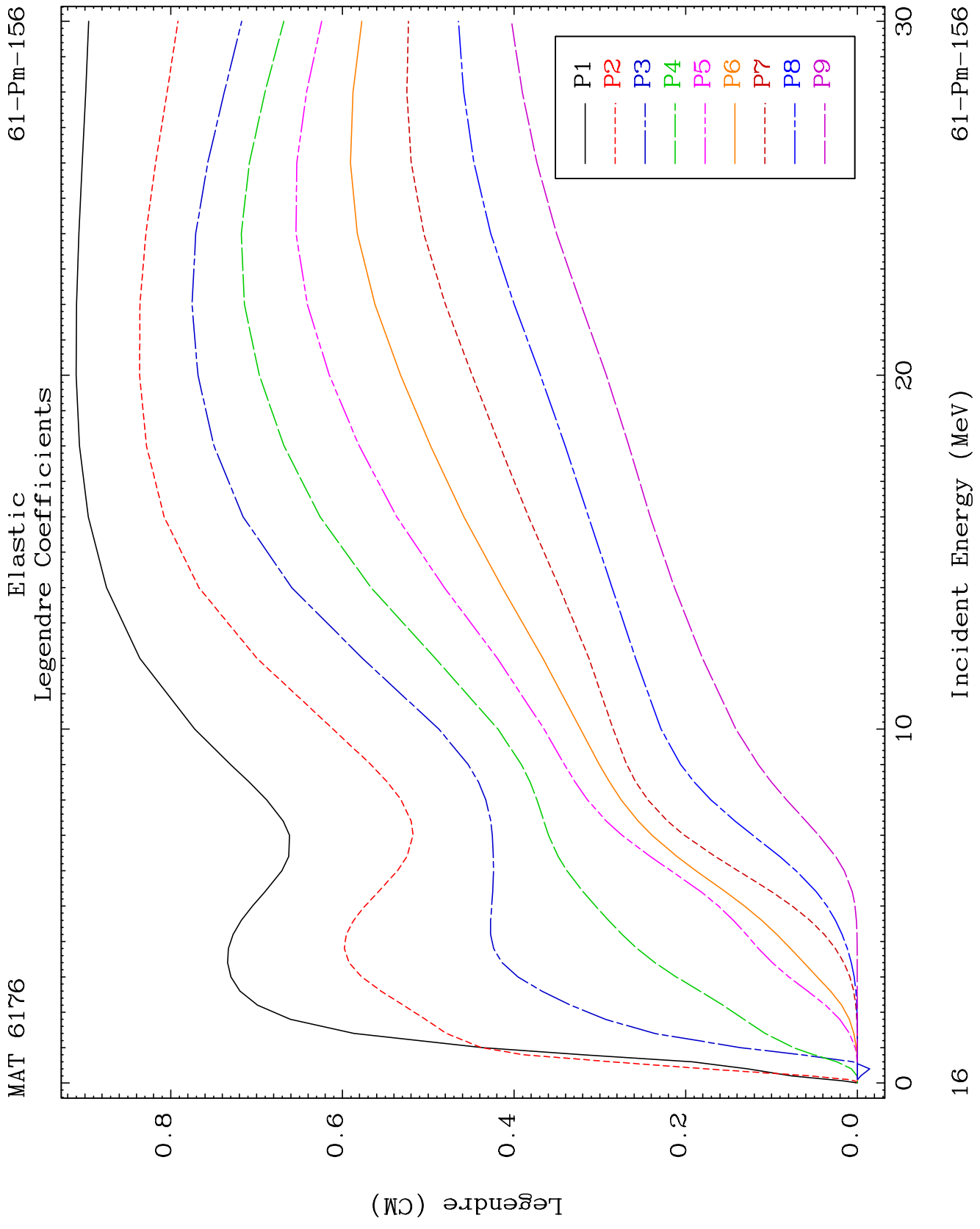
MAT 6176

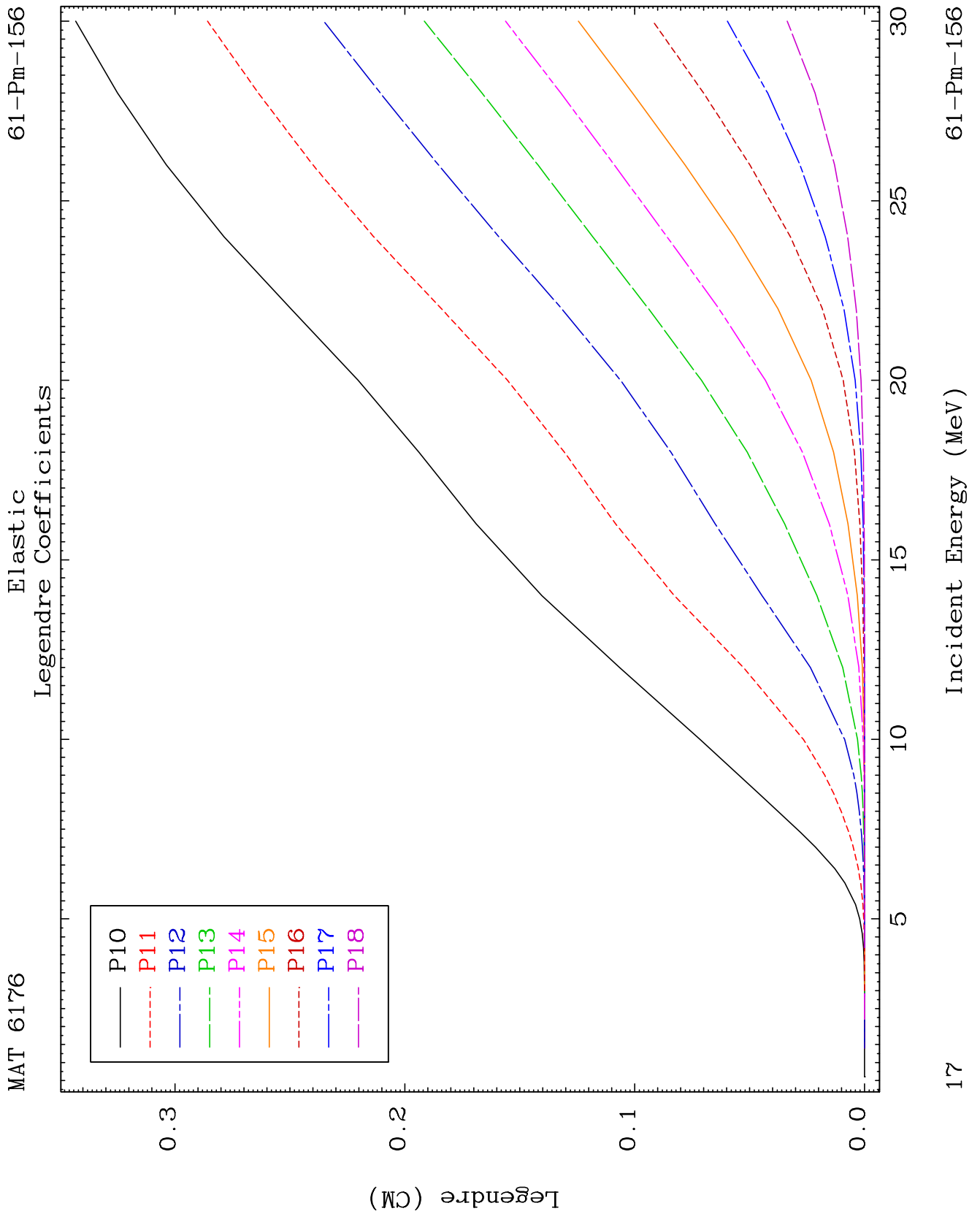
(n, α) Levels
293 Kelvin Cross Sections

61-Pm-156





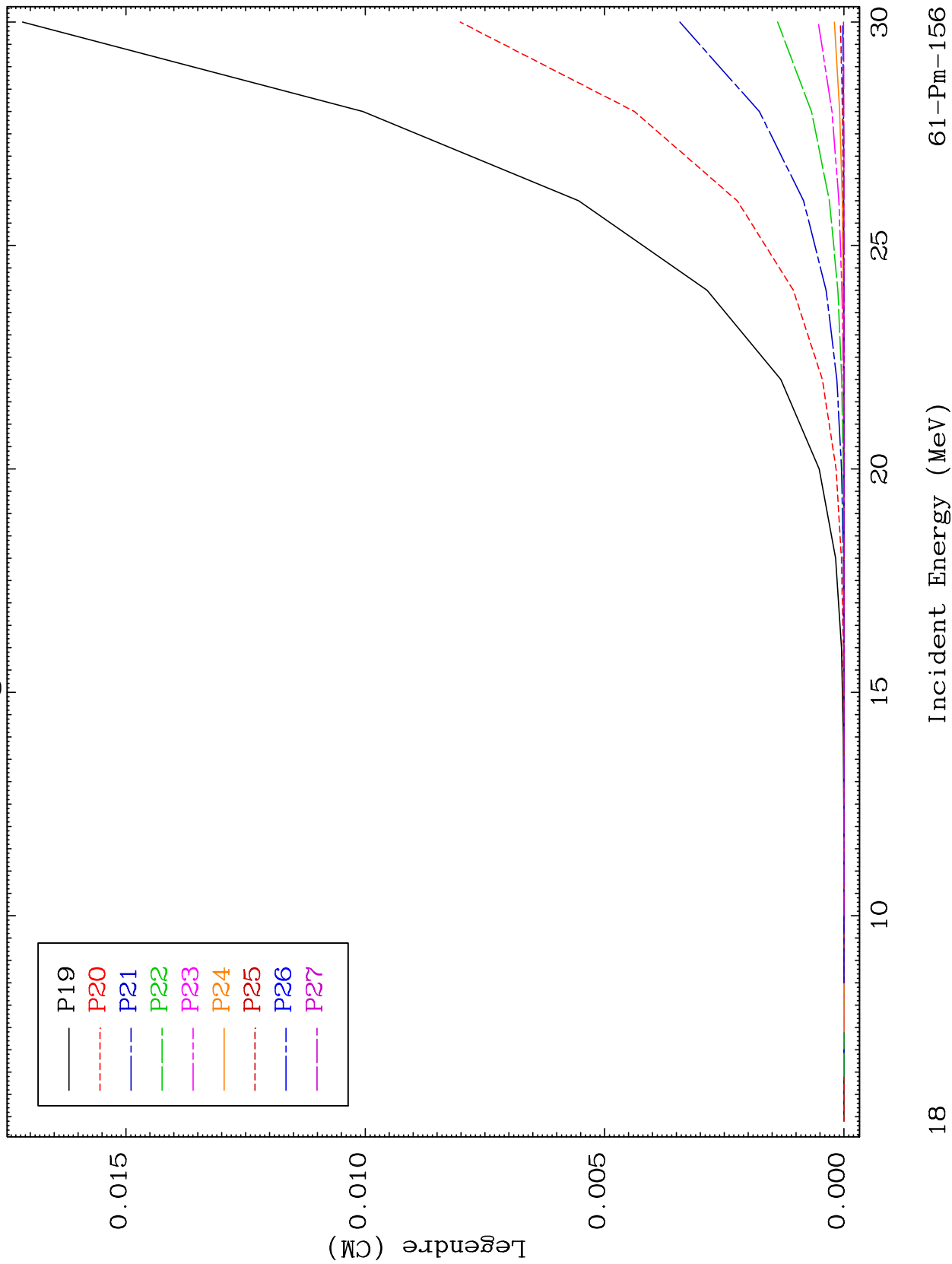




MAT 6176

Elastic Legendre Coefficients

61-Pm-156



18

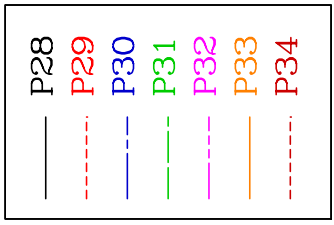
Incident Energy (MeV)

61-Pm-156

MAT 6176

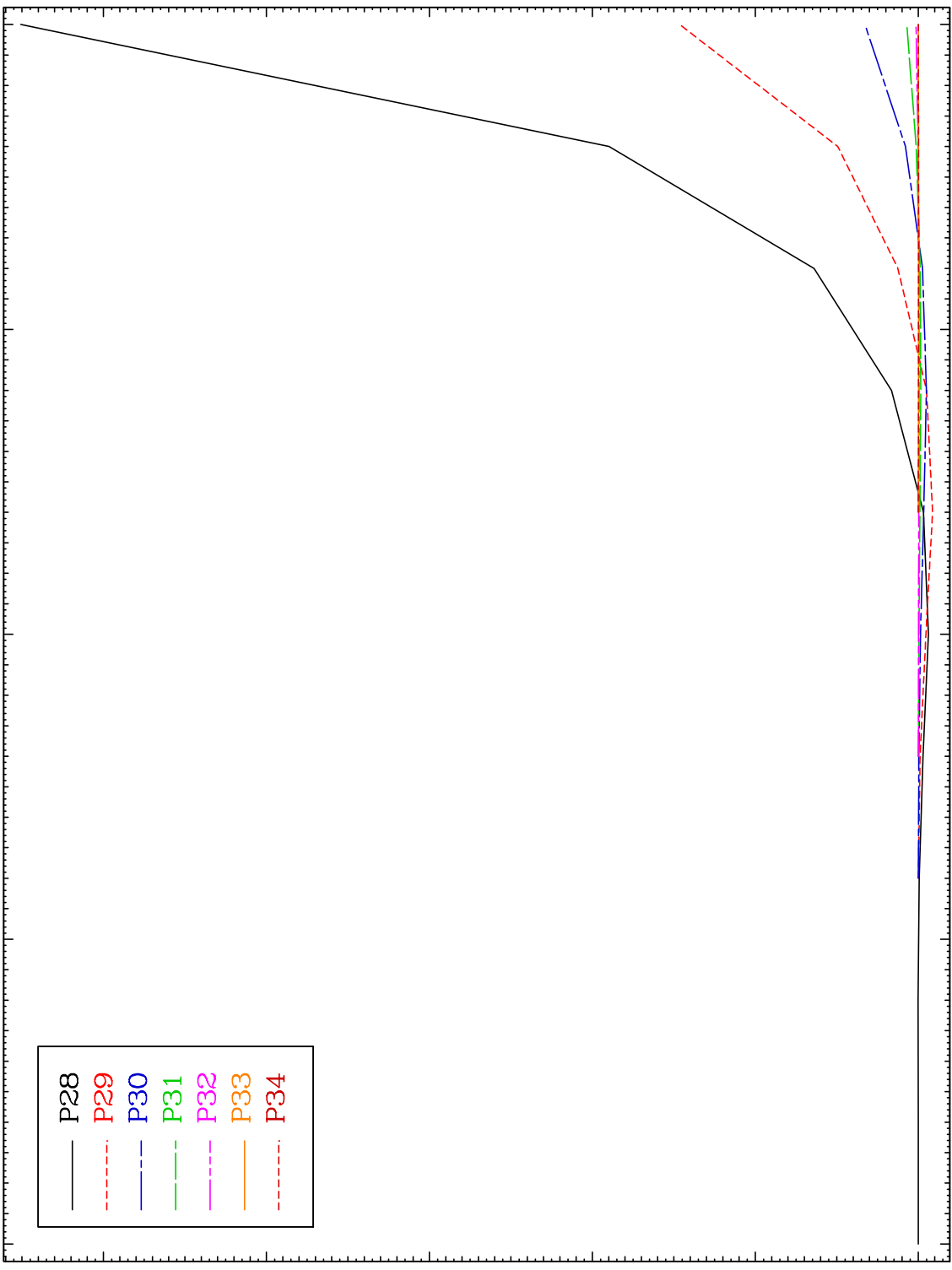
Elastic Legendre Coefficients

61-Pm-156



$\times 10^{-6}$

Legendre (CM)



30

25

20

15

10

Incident Energy (MeV)

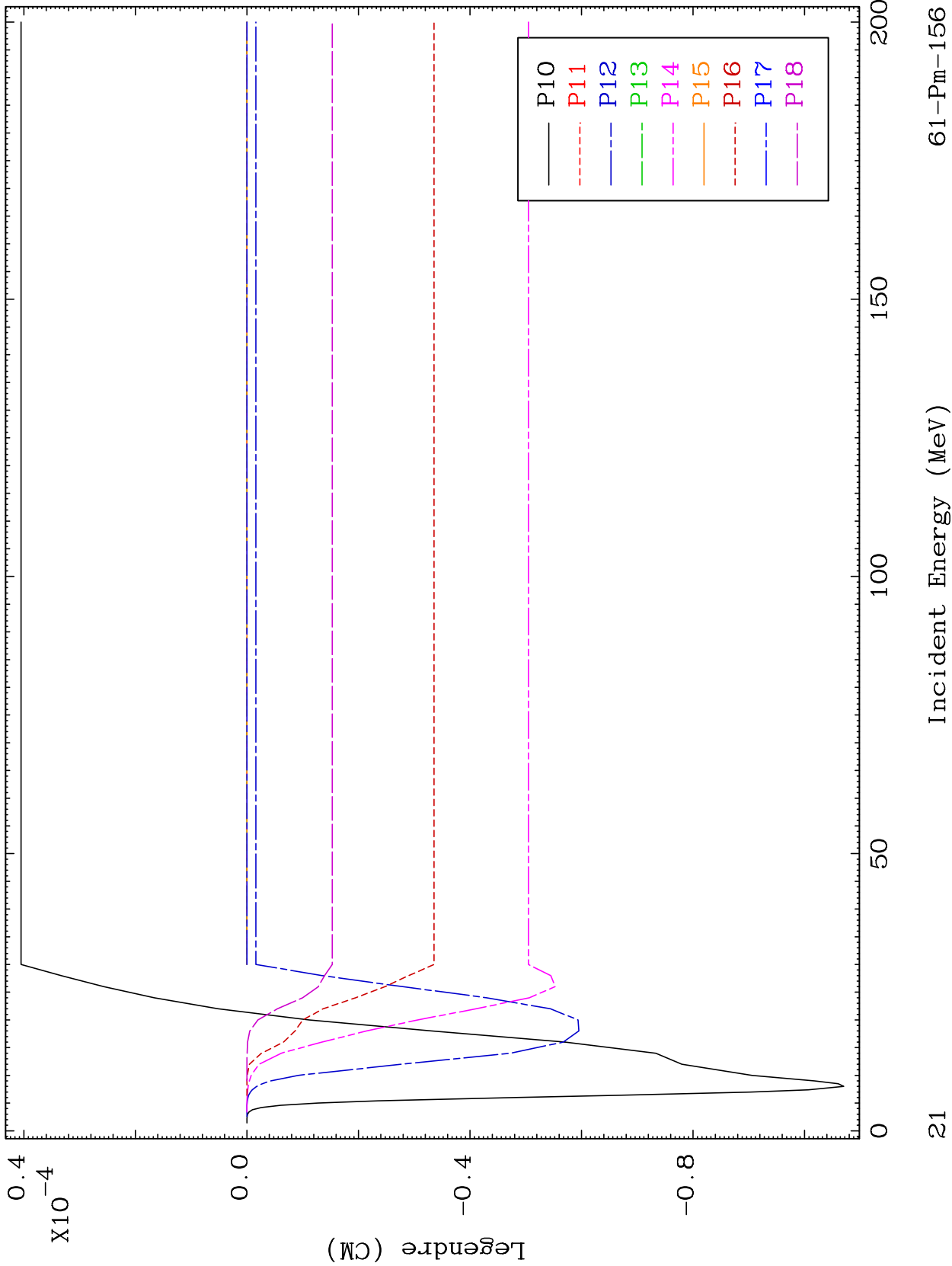
61-Pm-156

19

MAT 6176

MT= 51 (n,n') Level
Legendre Coefficients

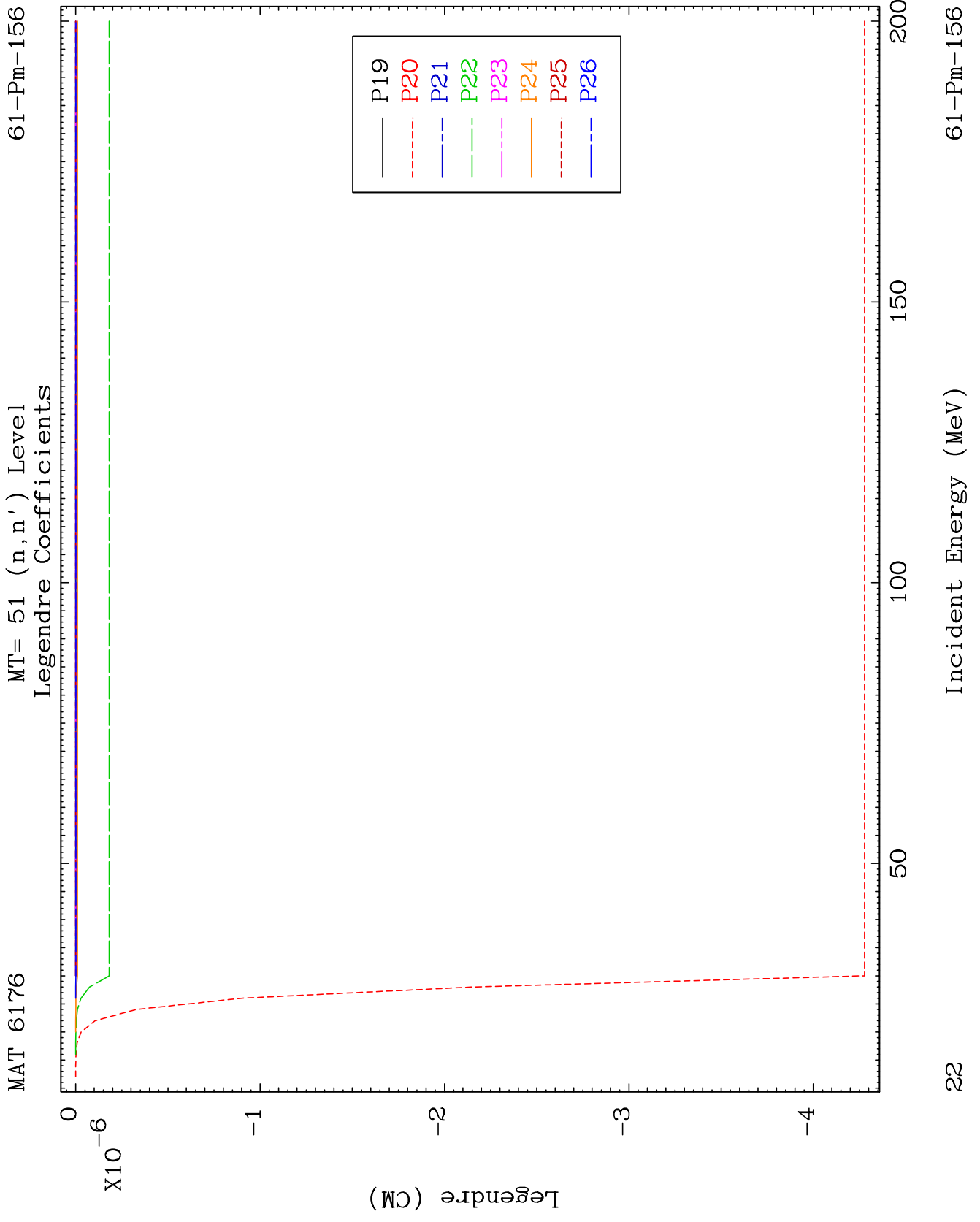
61-Pm-156

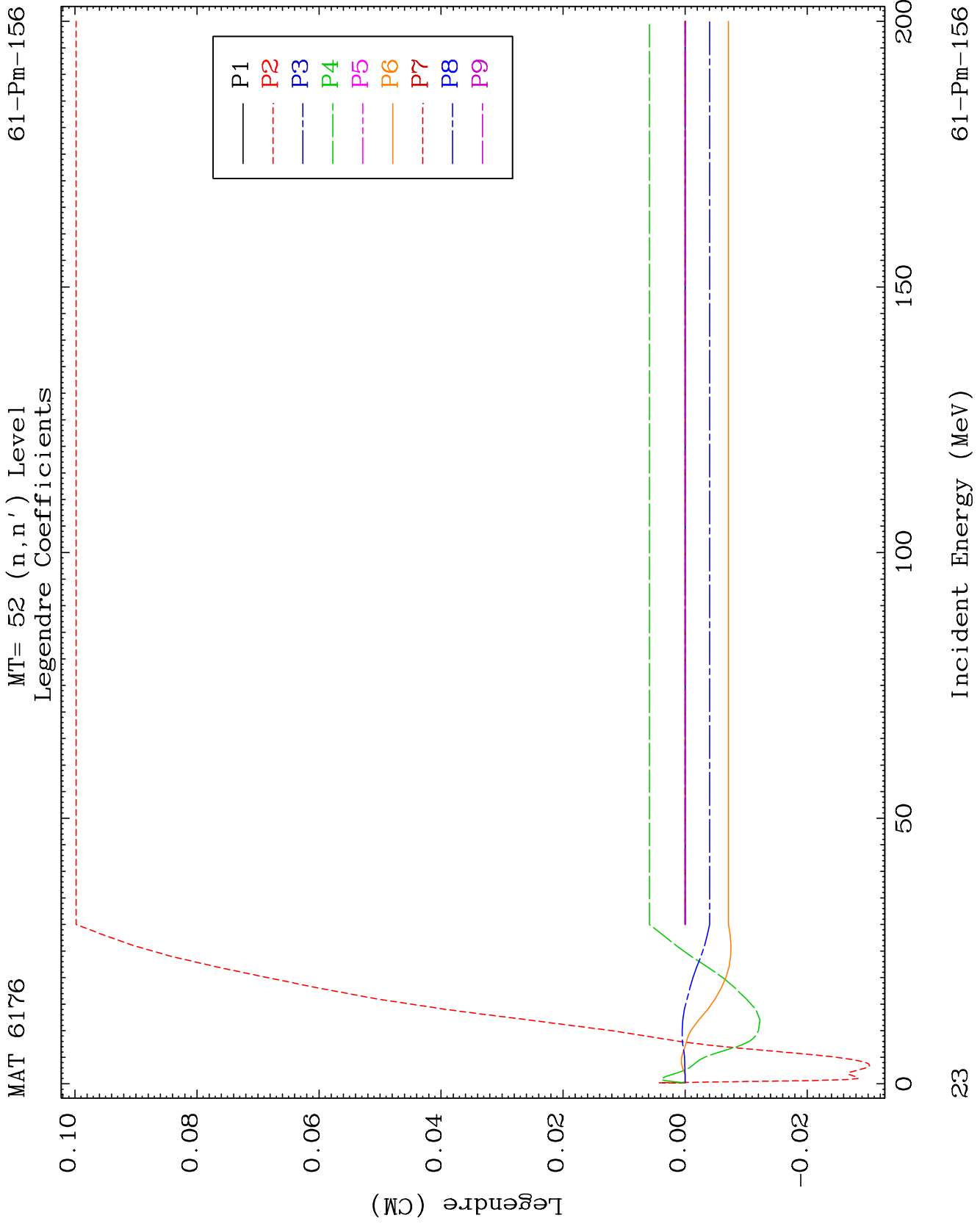


61-Pm-156

Incident Energy (MeV)

21

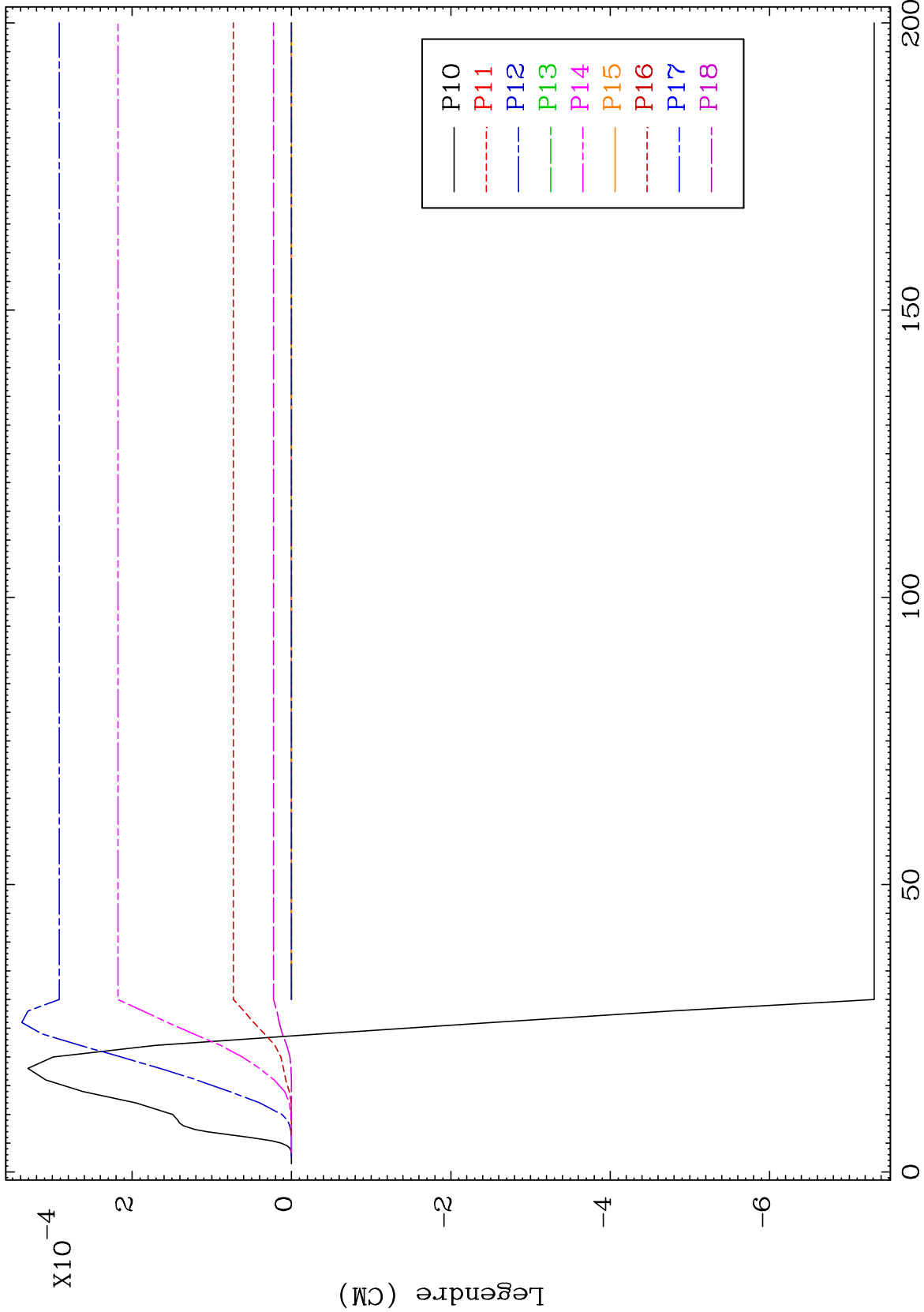




MAT 6176

MT= 52 (n,n') Level
Legendre Coefficients

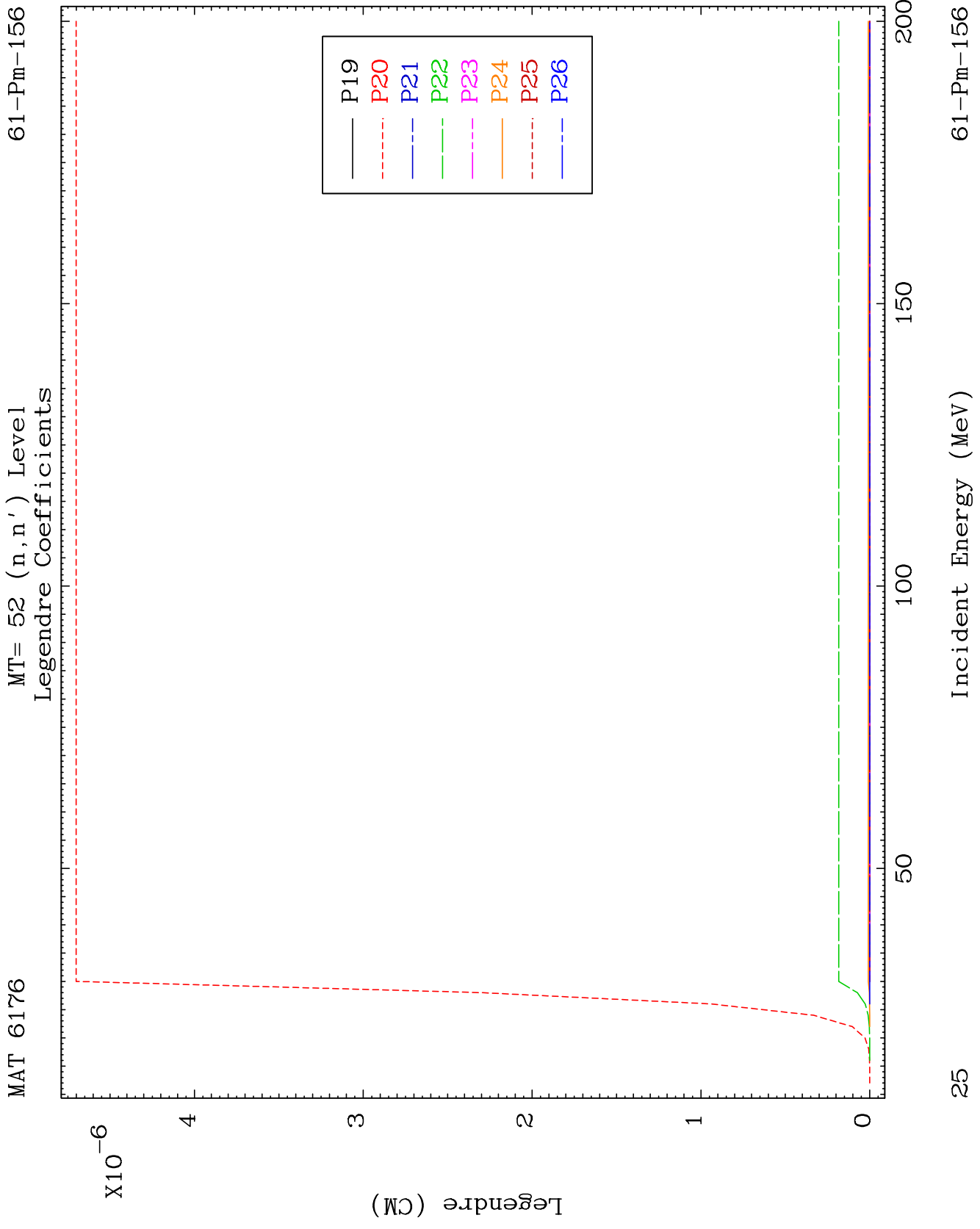
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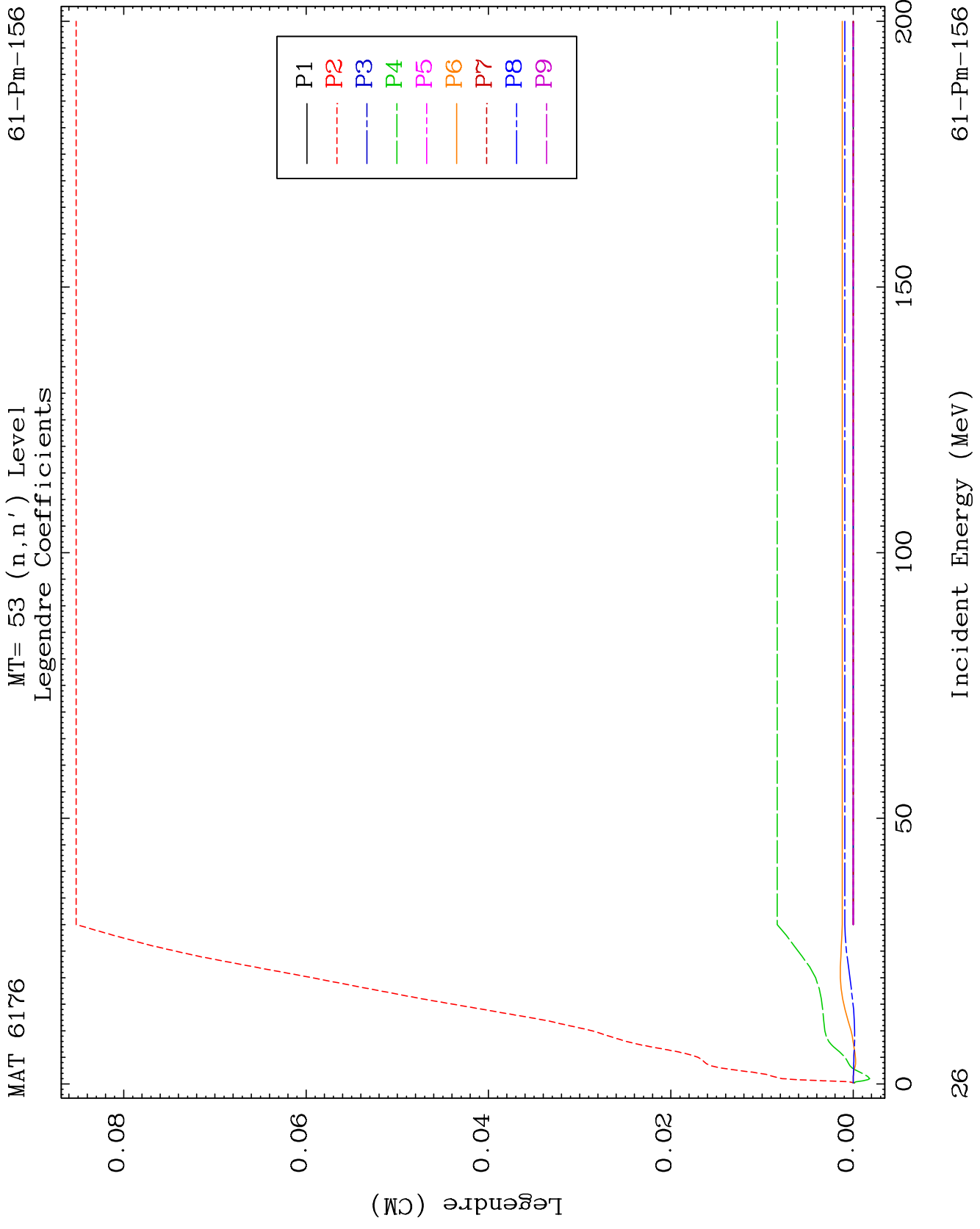


24

Incident Energy (MeV)

61-Pm-156

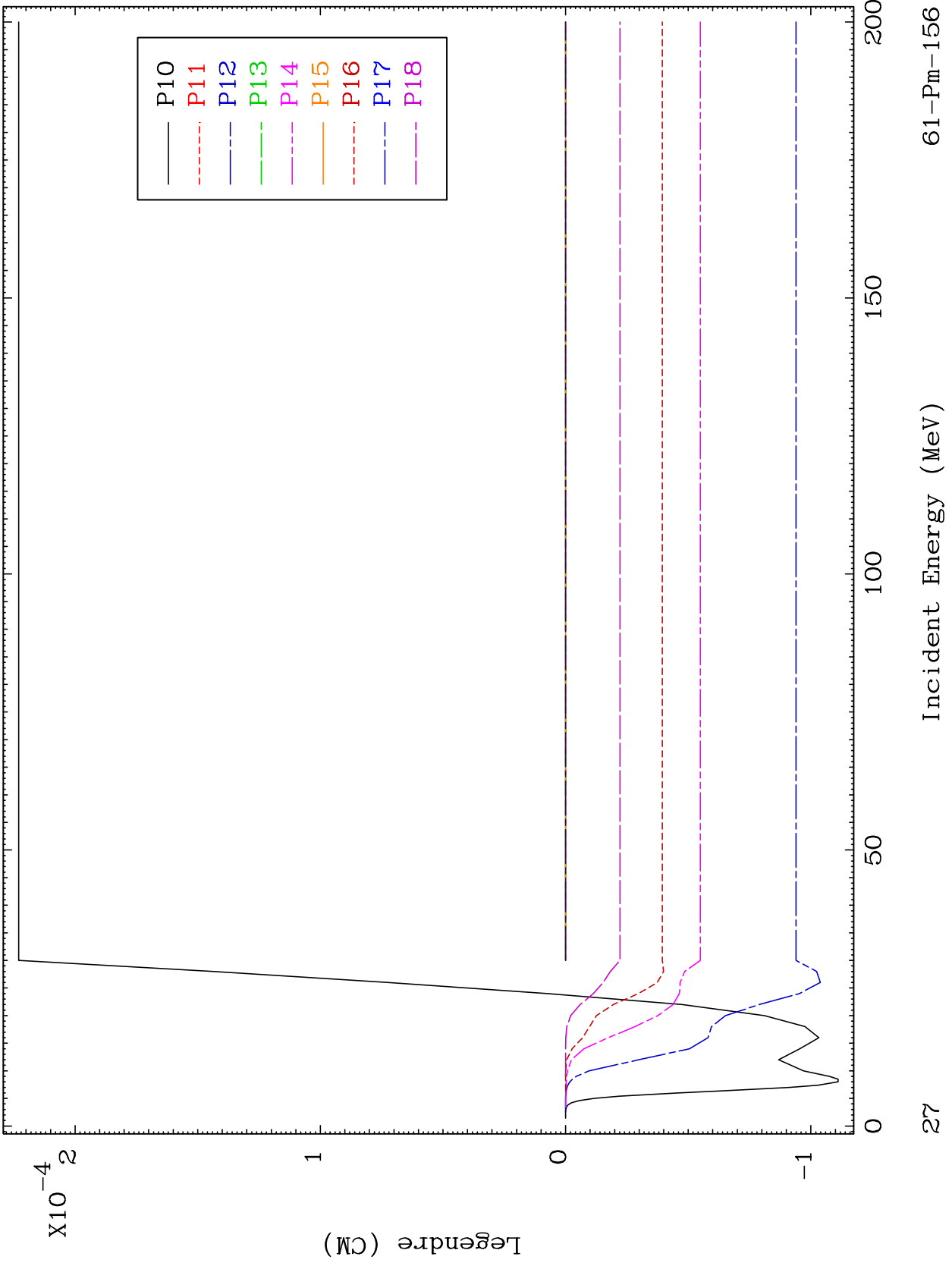




MAT 6176

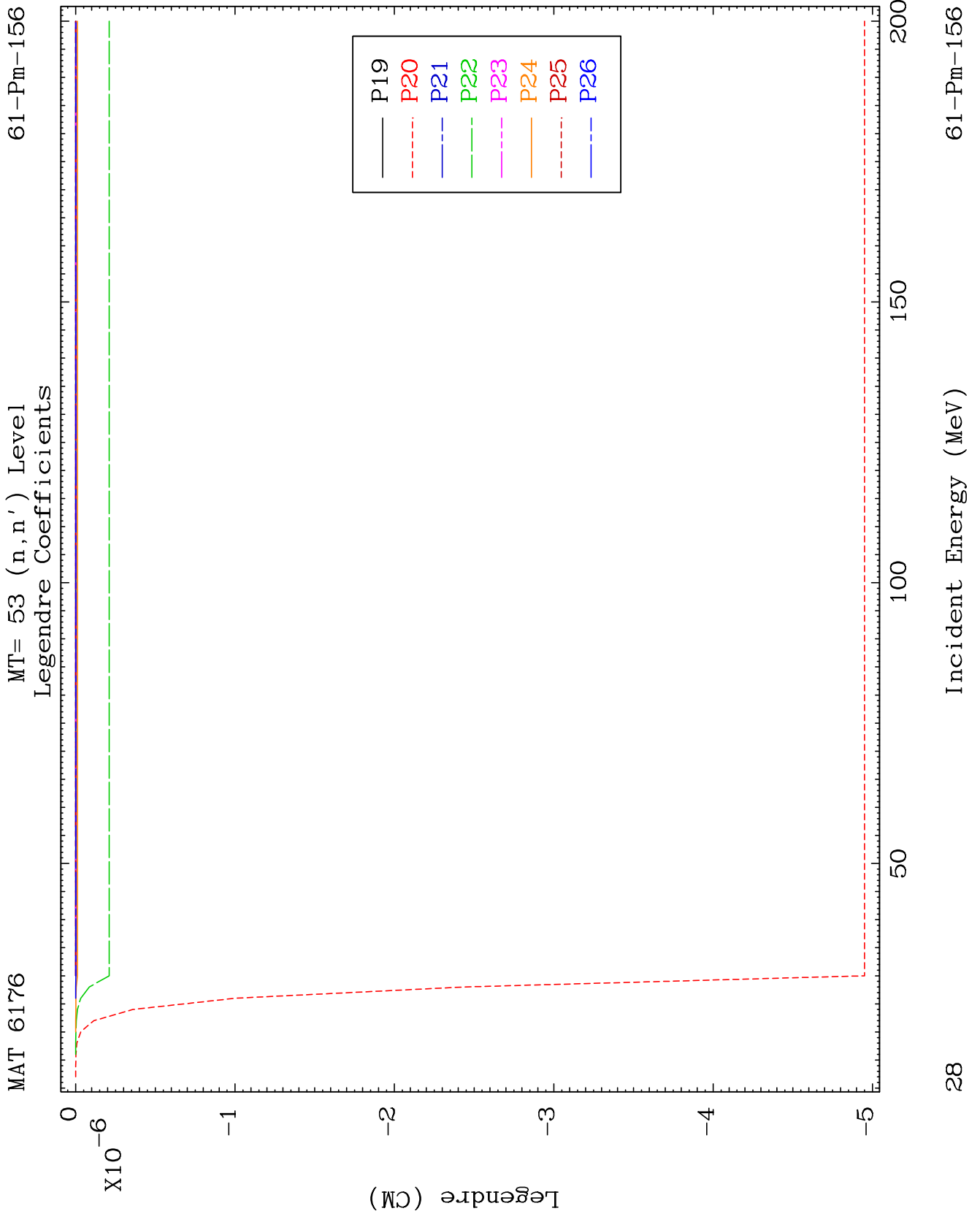
MT= 53 (n,n') Level
Legendre Coefficients

61-Pm-156



27

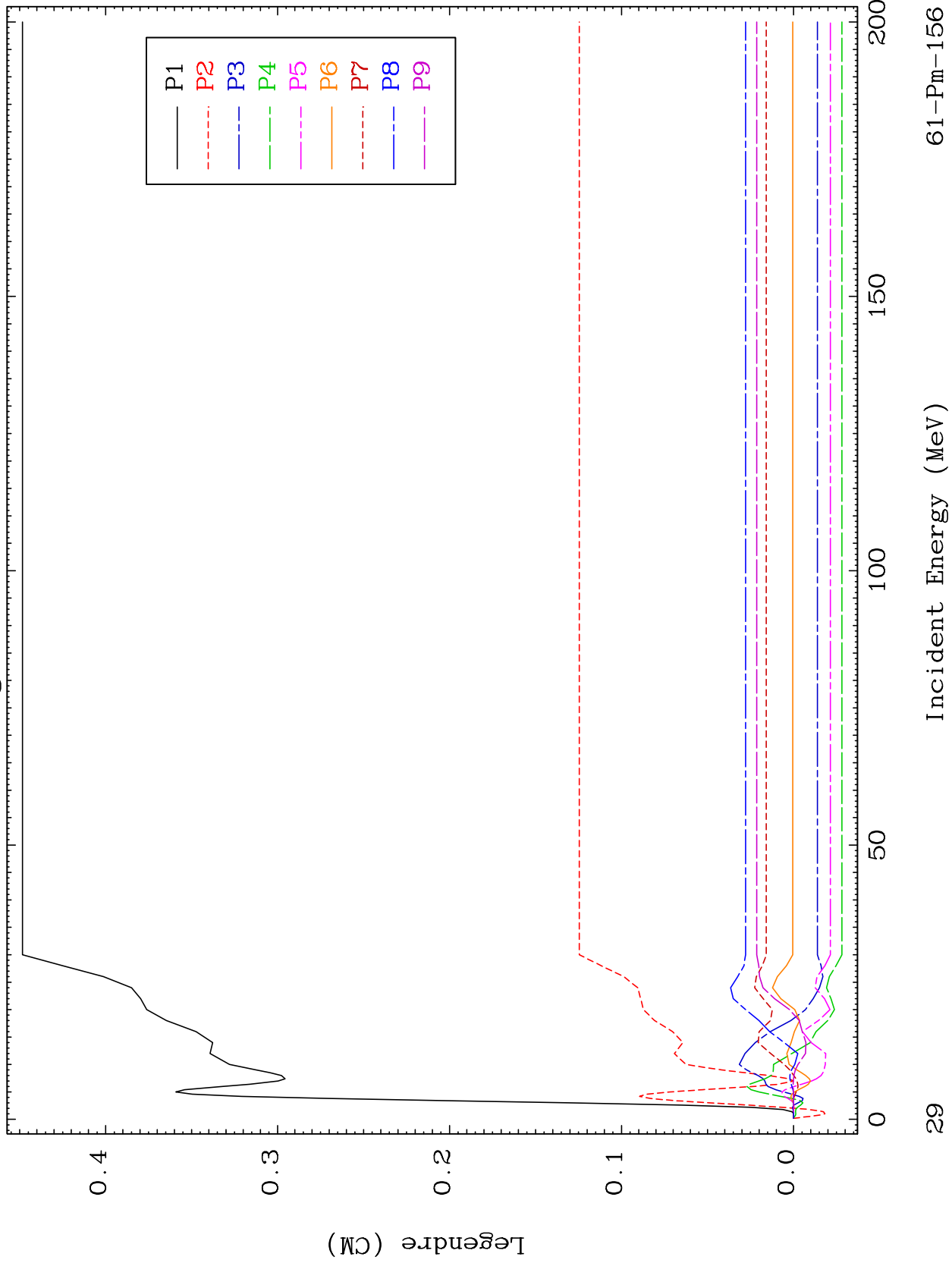
61-Pm-156



MAT 6176

MT= 54 (n,n') Level
Legendre Coefficients

61-Pm-156



29

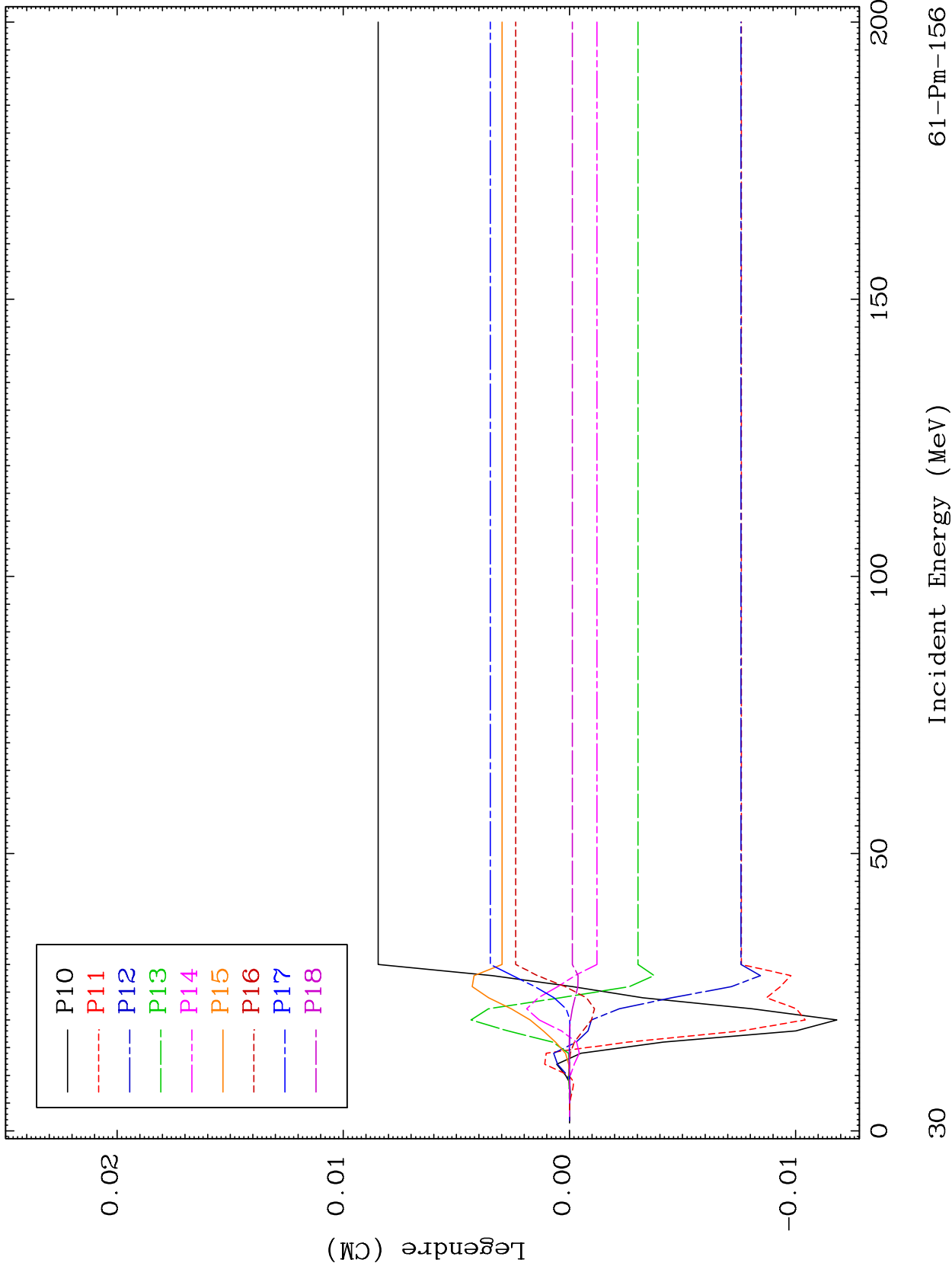
Incident Energy (MeV)

61-Pm-156

MAT 6176

MT= 54 (n,n') Level
Legendre Coefficients

61-Pm-156



61-Pm-156

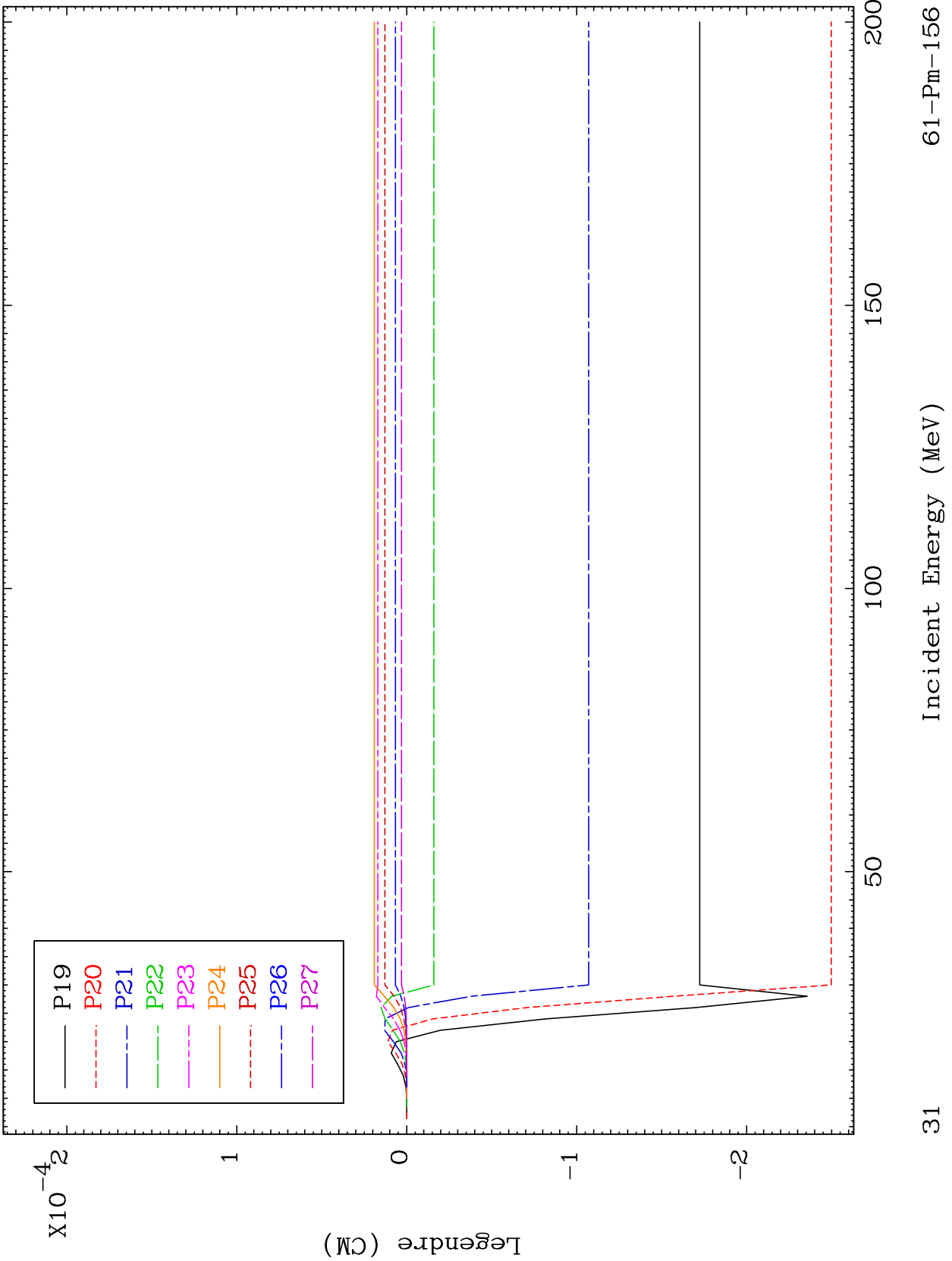
Incident Energy (MeV)

30

MAT 6176

MT= 54 (n,n') Level
Legendre Coefficients

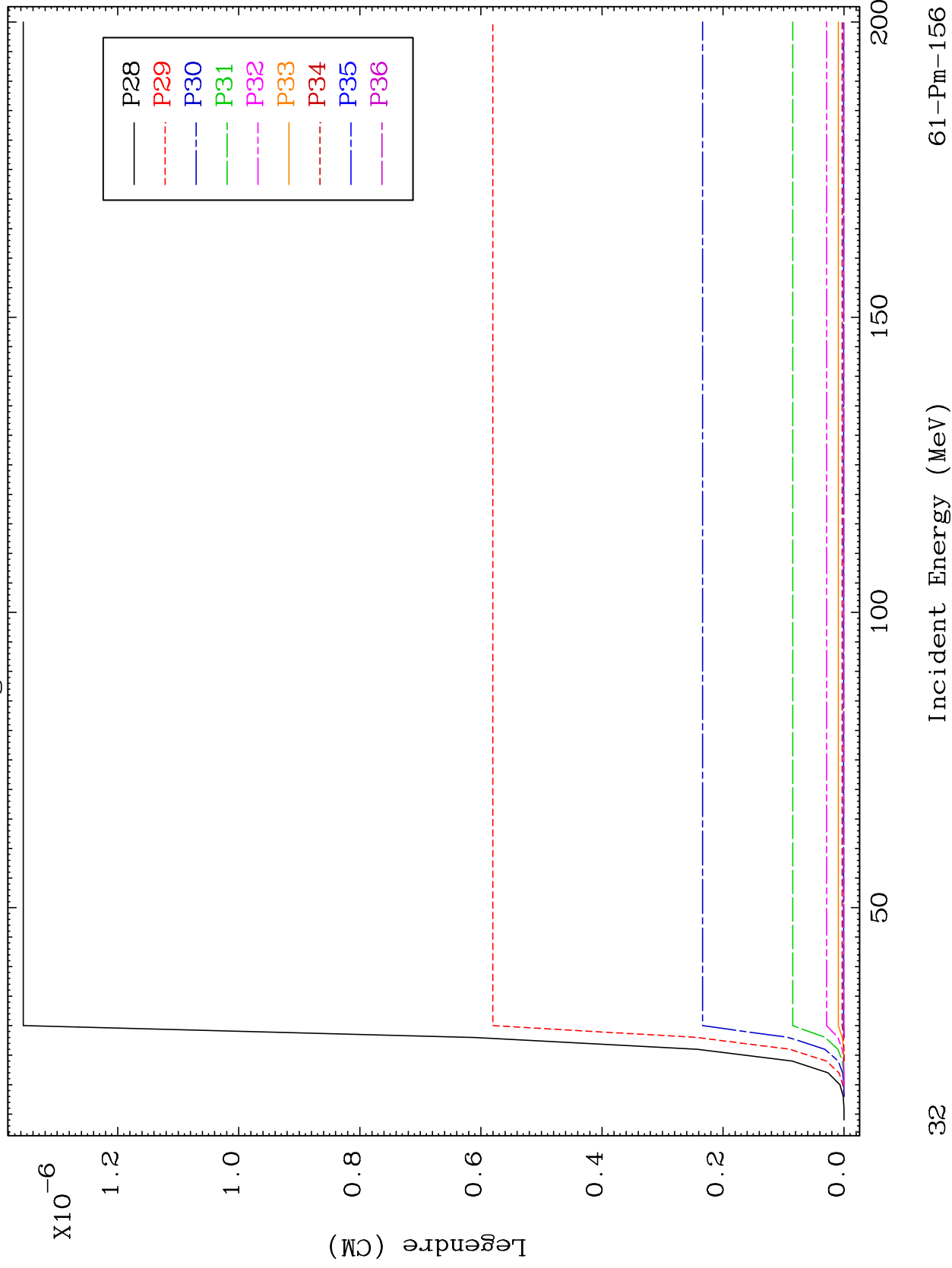
61-Pm-156



MAT 6176

MT= 54 (n,n') Level
Legendre Coefficients

61-Pm-156



32

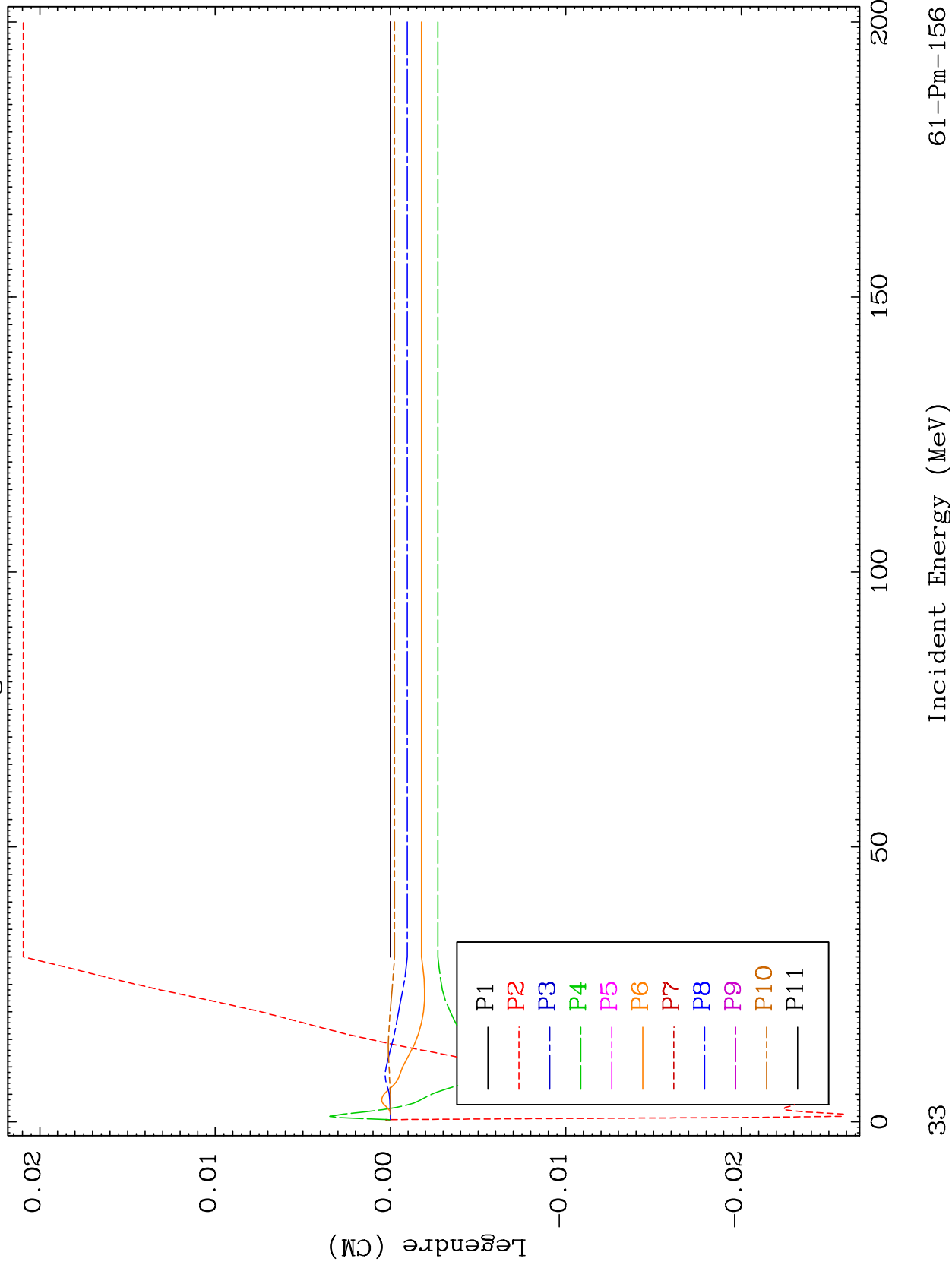
Incident Energy (MeV)

61-Pm-156

MAT 6176

MT= 55 (n,n') Level
Legendre Coefficients

61-Pm-156



33

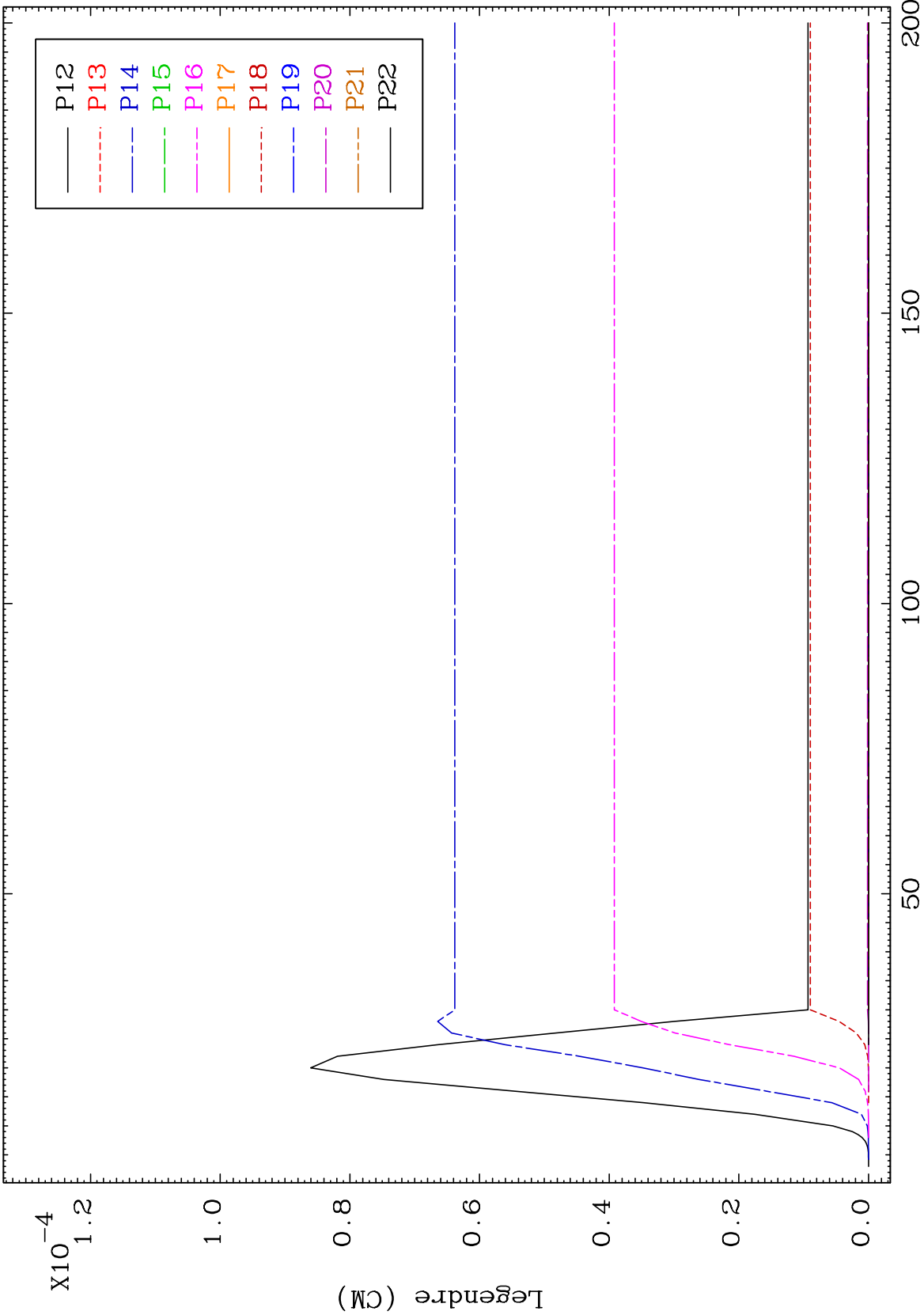
Incident Energy (MeV)

61-Pm-156

MAT 6176

MT= 55 (n,n') Level
Legendre Coefficients

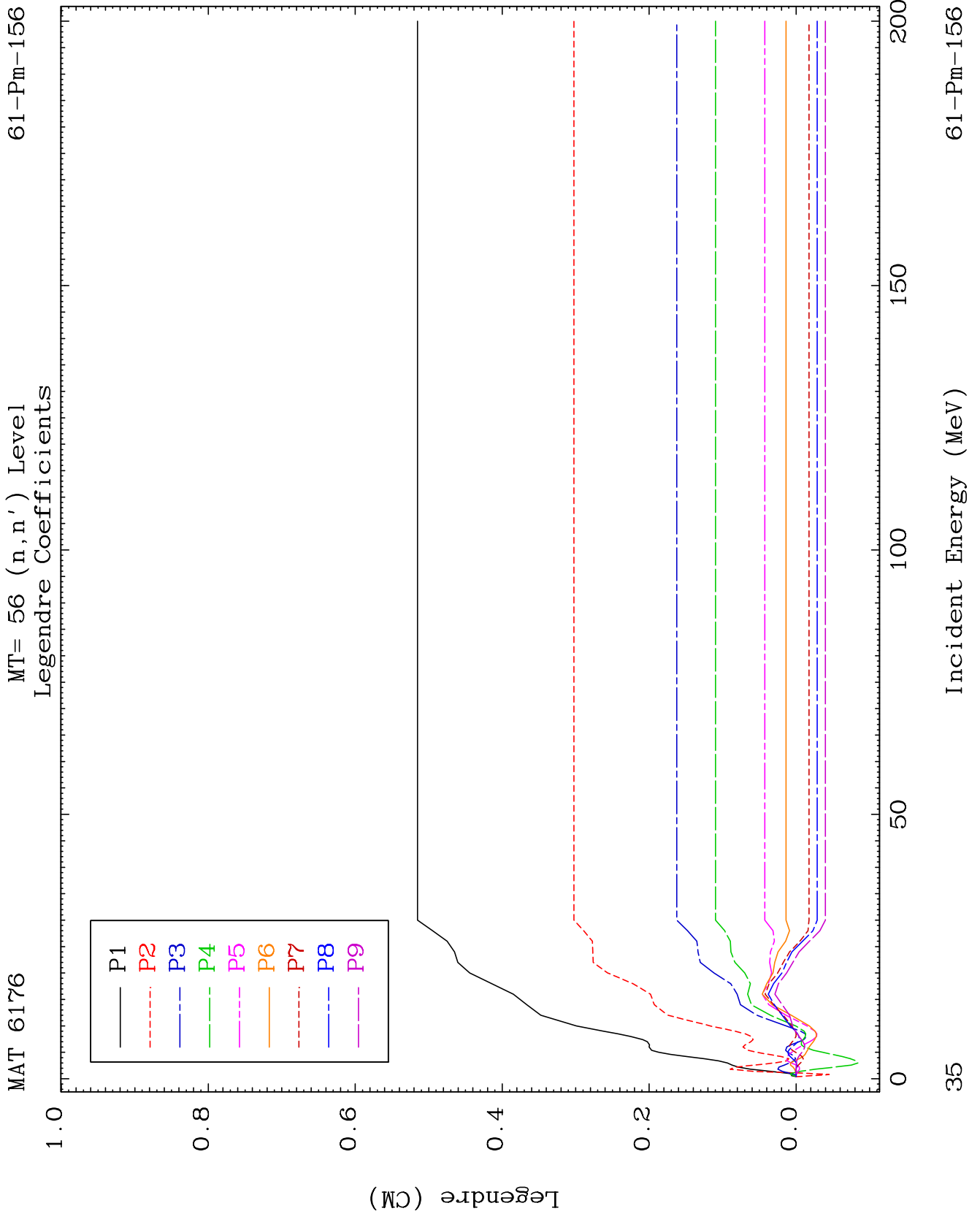
61-Pm-156



34

Incident Energy (MeV)

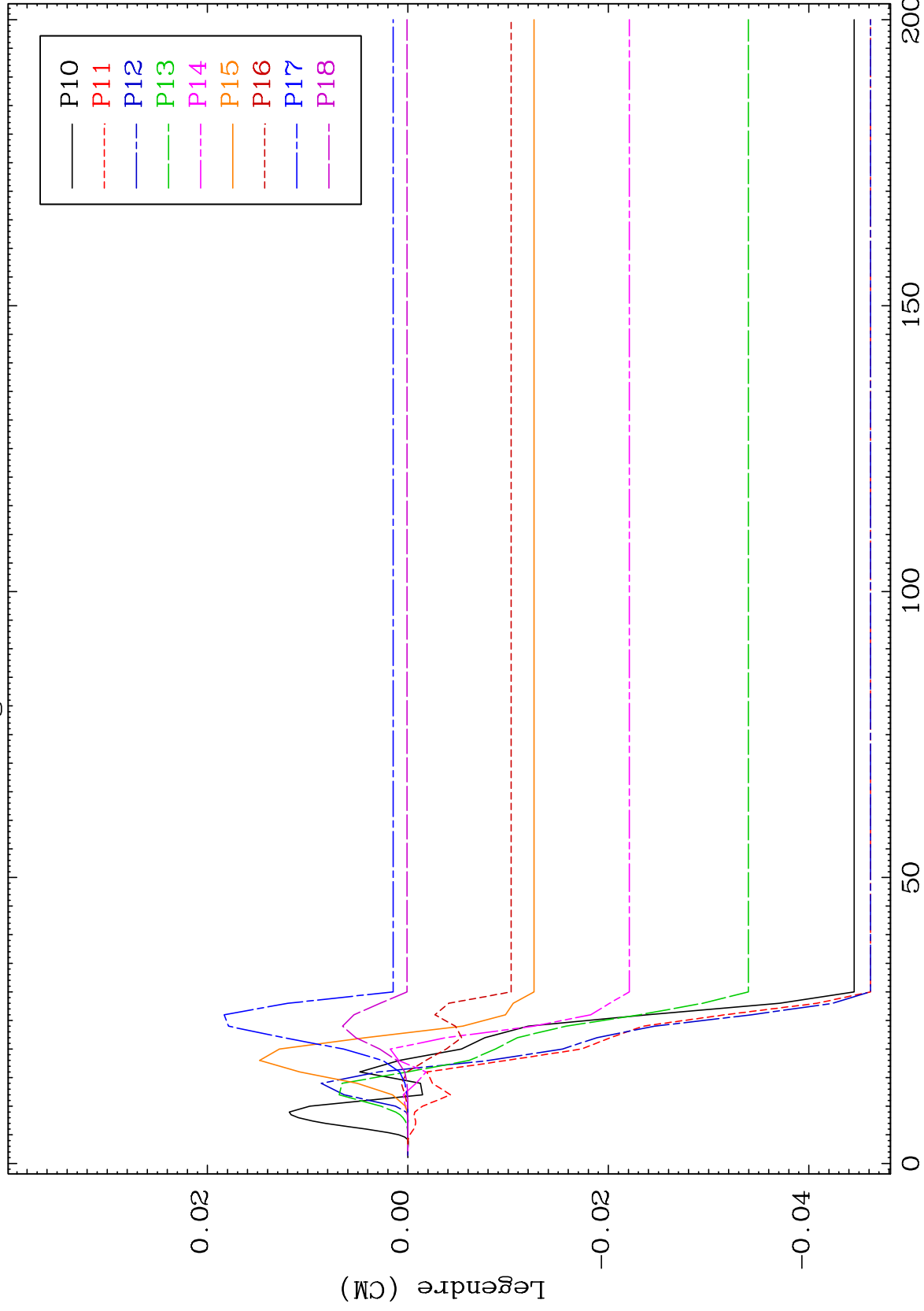
61-Pm-156



MAT 6176

MT= 56 (n,n') Level
Legendre Coefficients

61-Pm-156



36

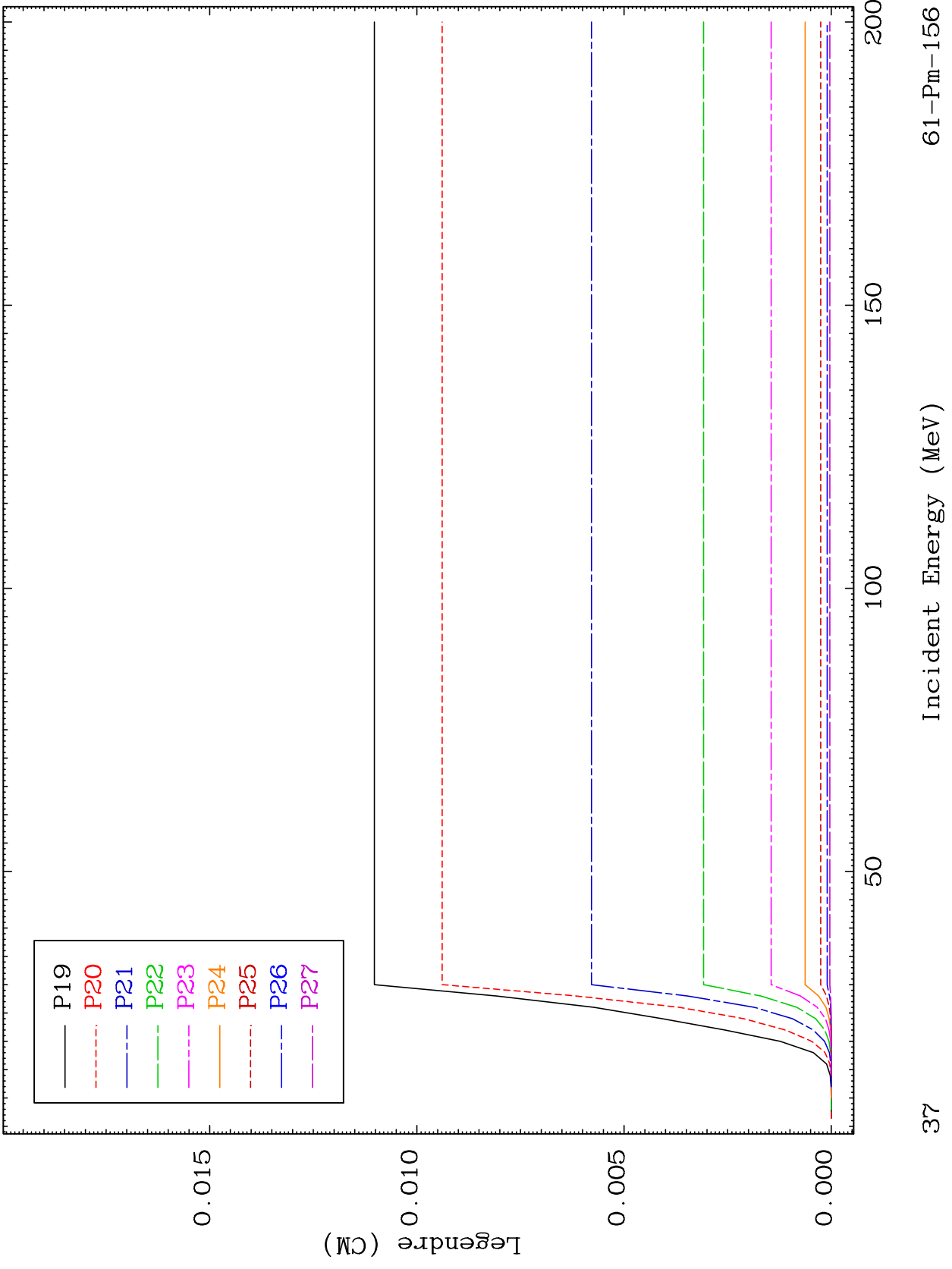
Incident Energy (MeV)

61-Pm-156

MAT 6176

MT= 56 (n,n') Level
Legendre Coefficients

61-Pm-156



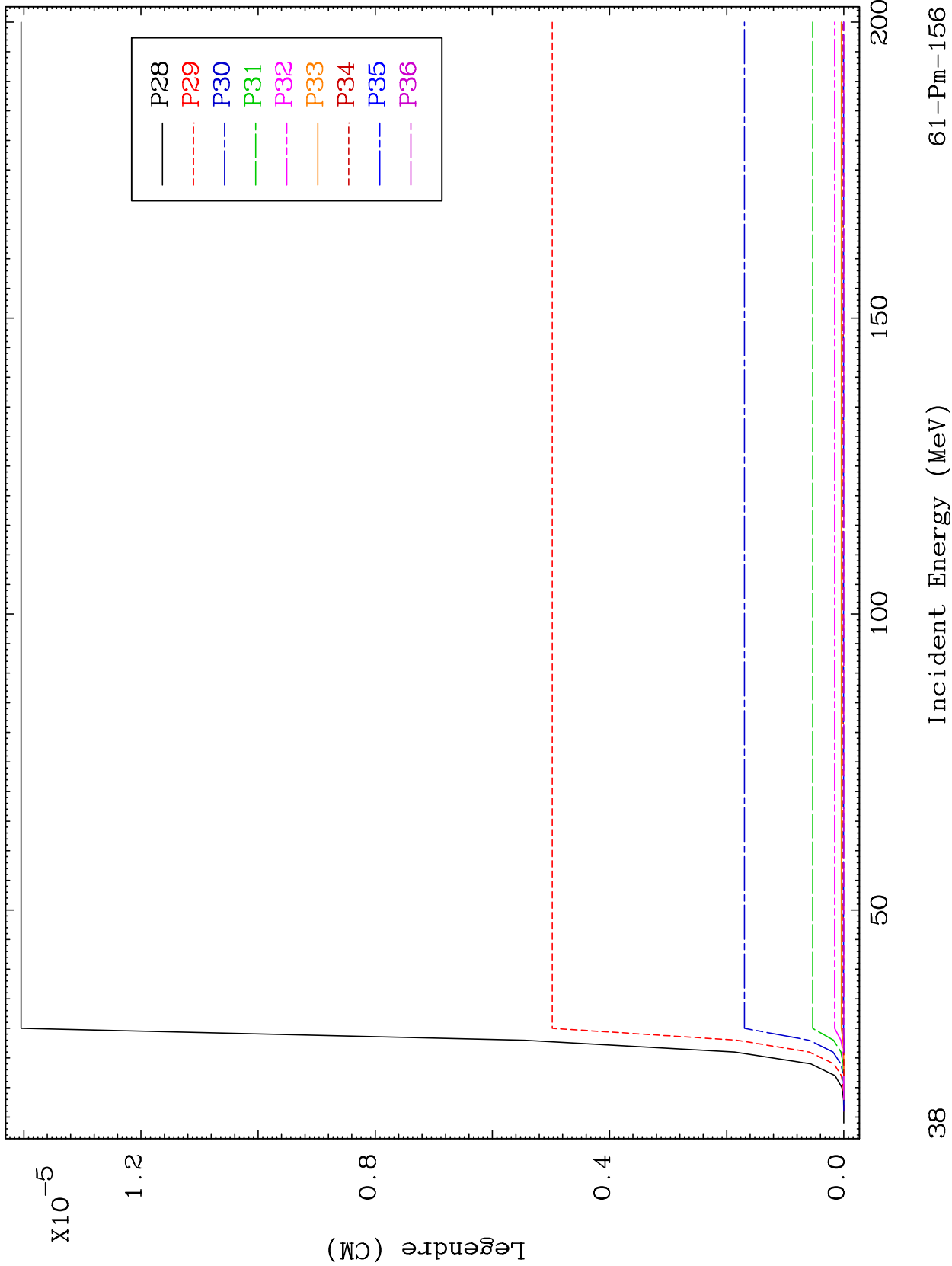
37

61-Pm-156

MAT 6176

MT= 56 (n,n') Level
Legendre Coefficients

61-Pm-156



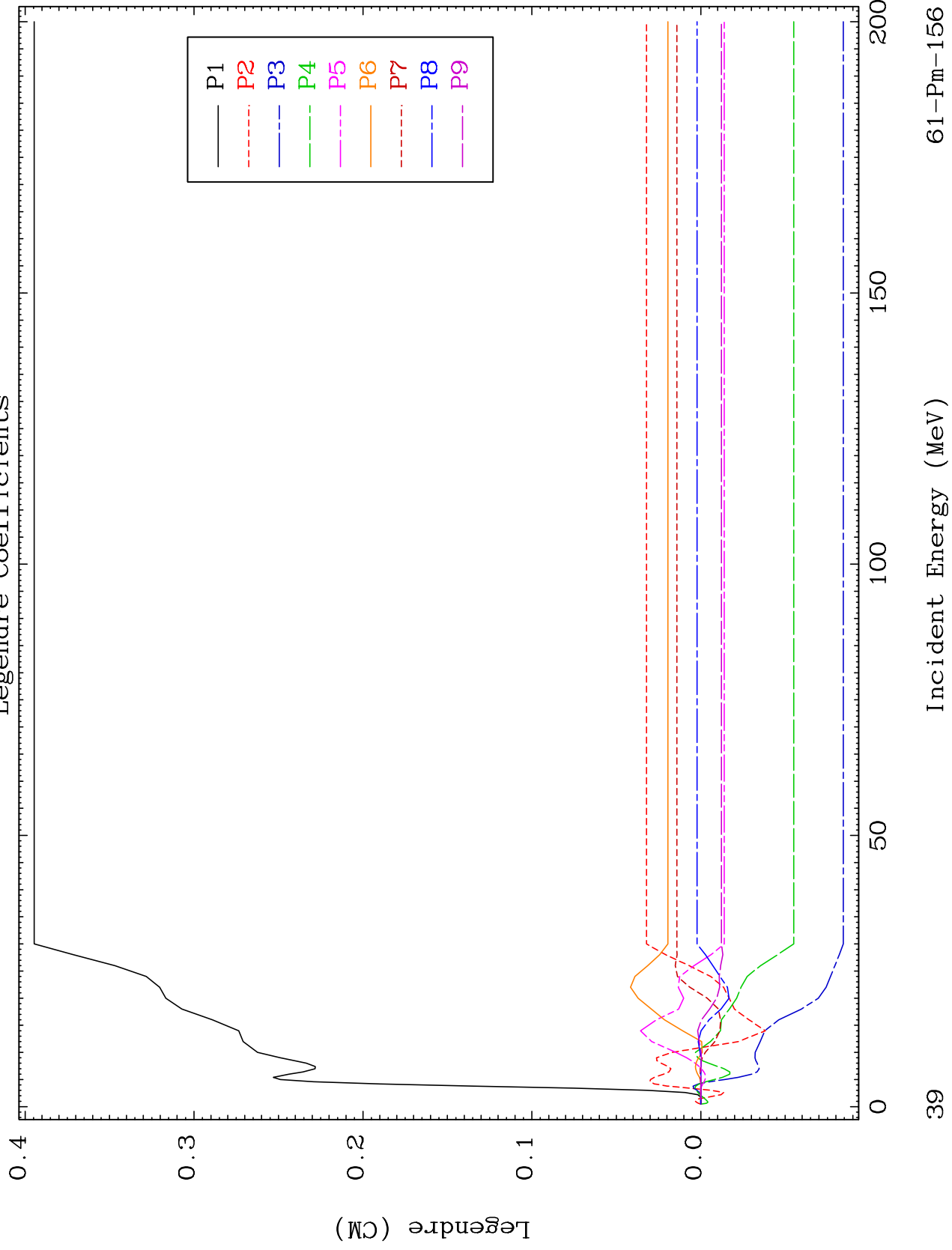
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61-Pm-156

MAT 6176

MT= 57 (n,n') Level
Legendre Coefficients

61-Pm-156



61-Pm-156

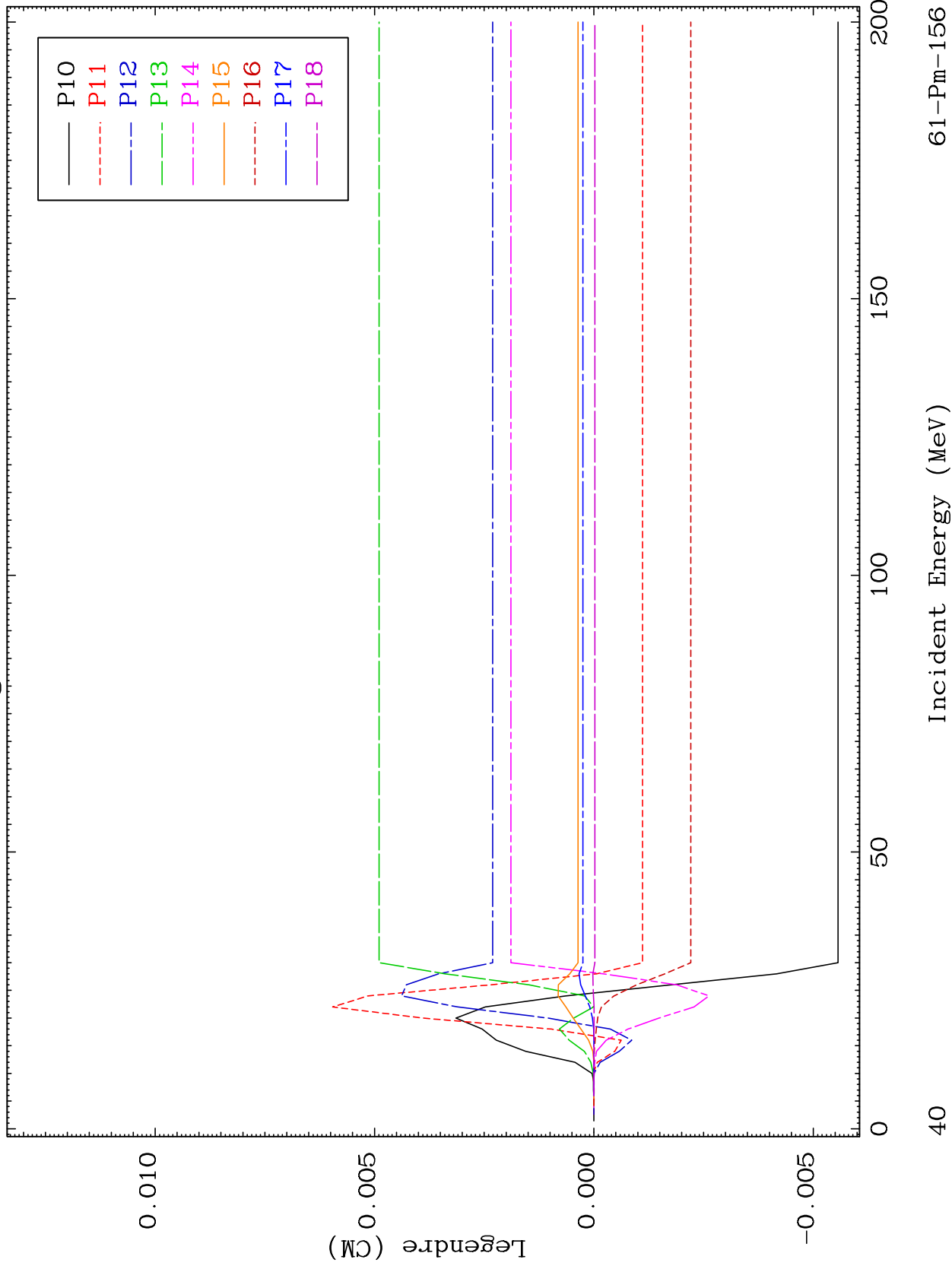
Incident Energy (MeV)

39

MAT 6176

MT= 57 (n,n') Level
Legendre Coefficients

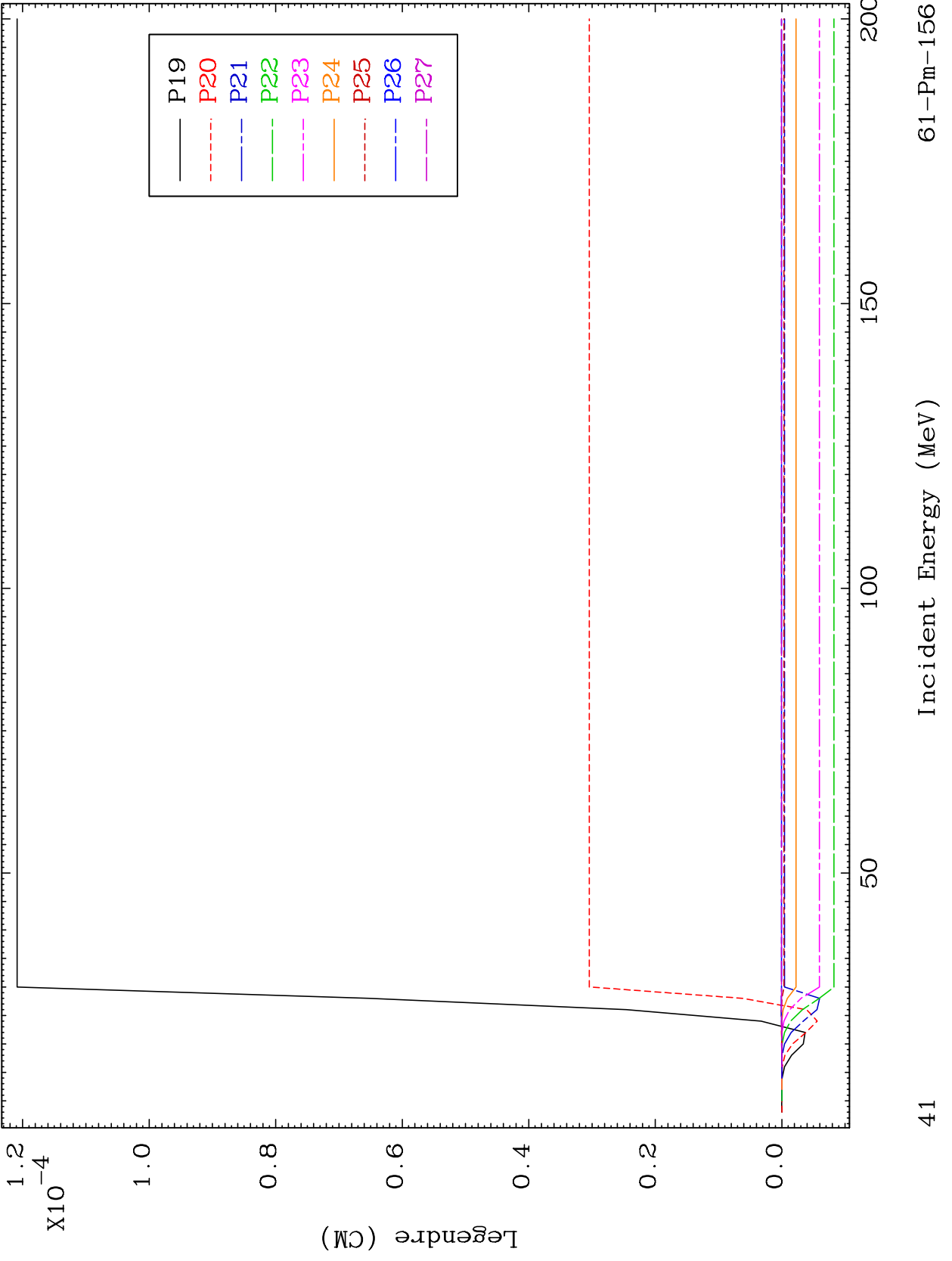
61-Pm-156



61-Pm-156

Incident Energy (MeV)

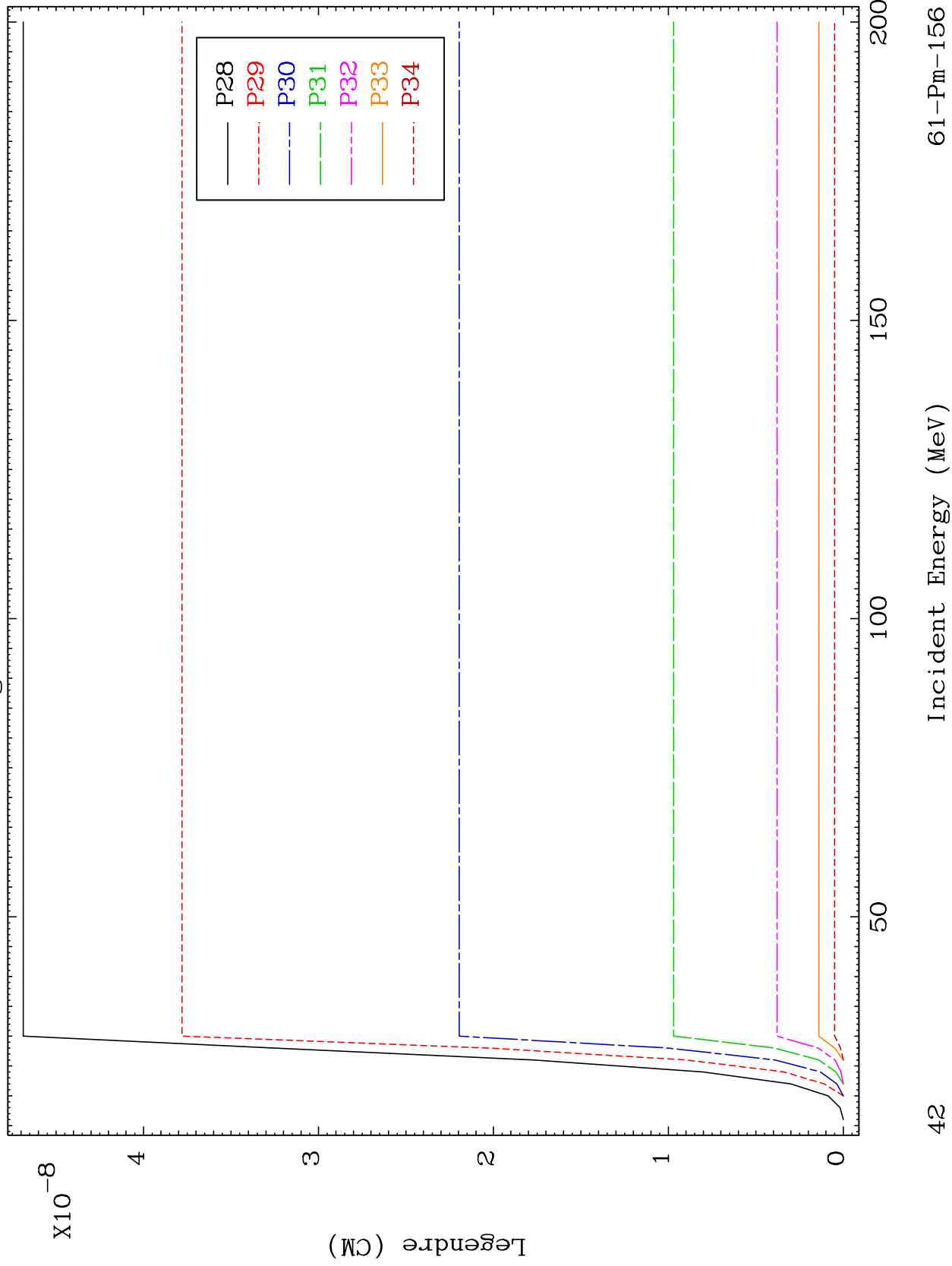
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MAT 6176

MT= 57 (n,n') Level
Legendre Coefficients

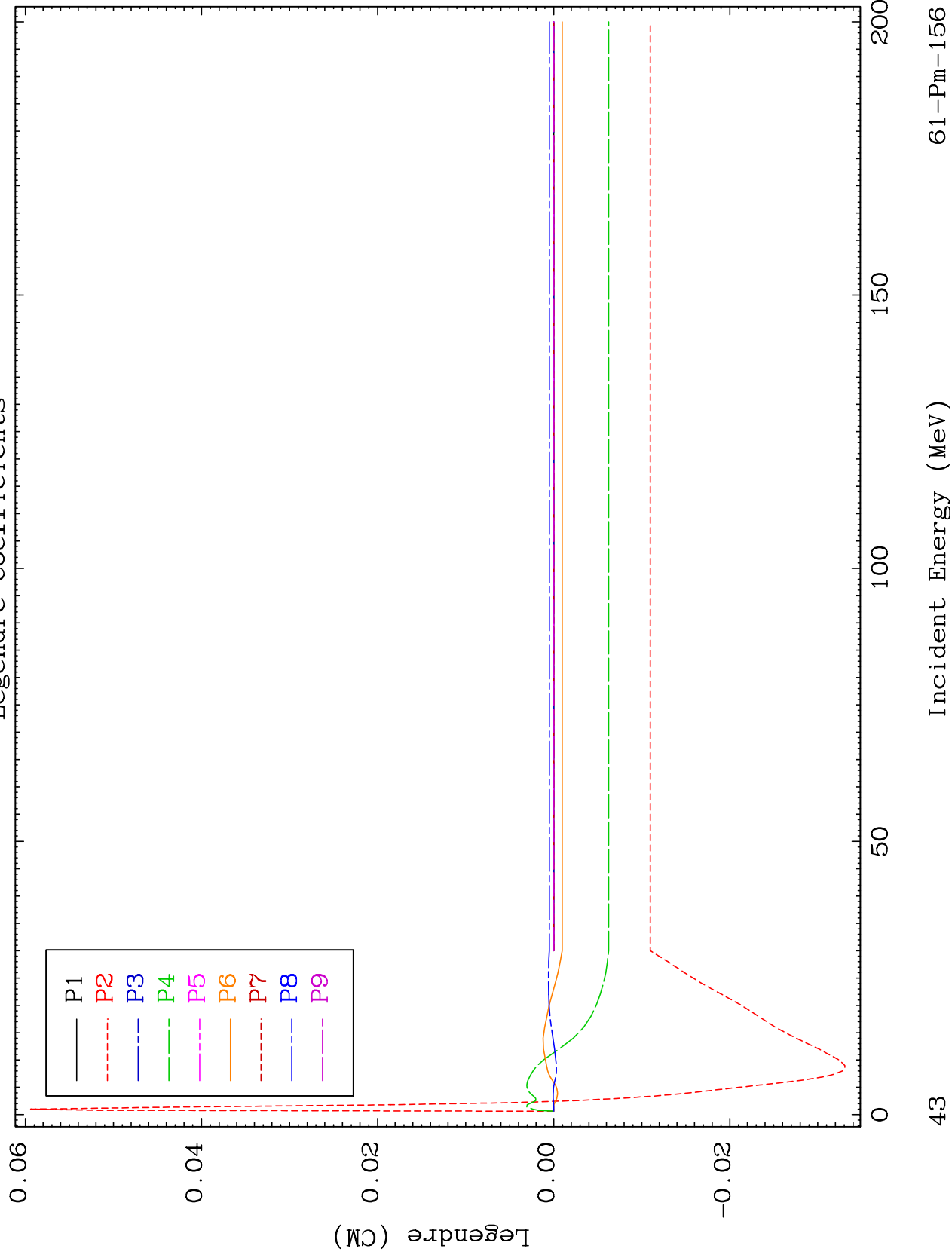
61-Pm-156



MAT 6176

MT= 58 (n,n') Level
Legendre Coefficients

61-Pm-156

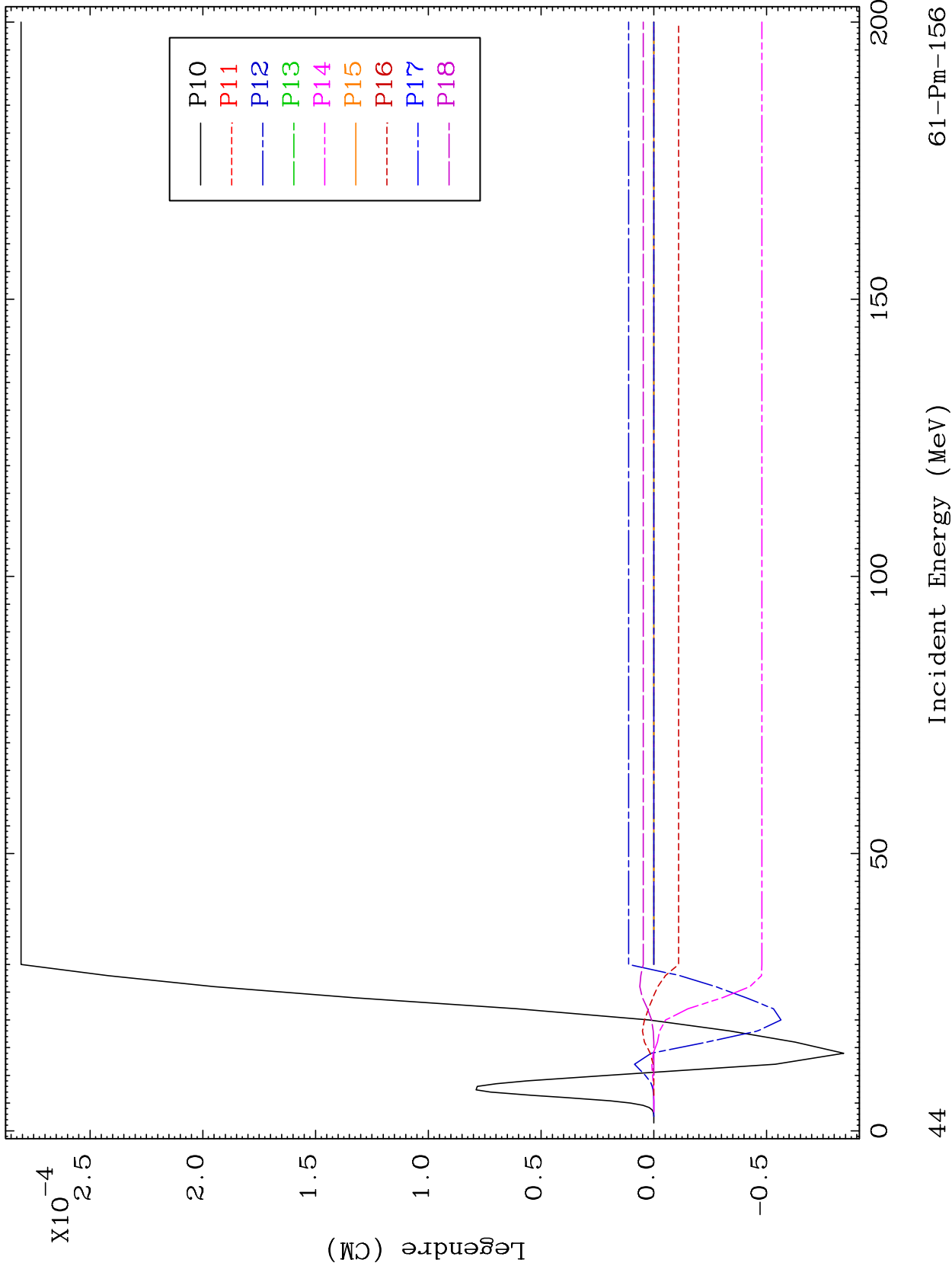


43

MAT 6176

MT= 58 (n,n') Level
Legendre Coefficients

61-Pm-156



44

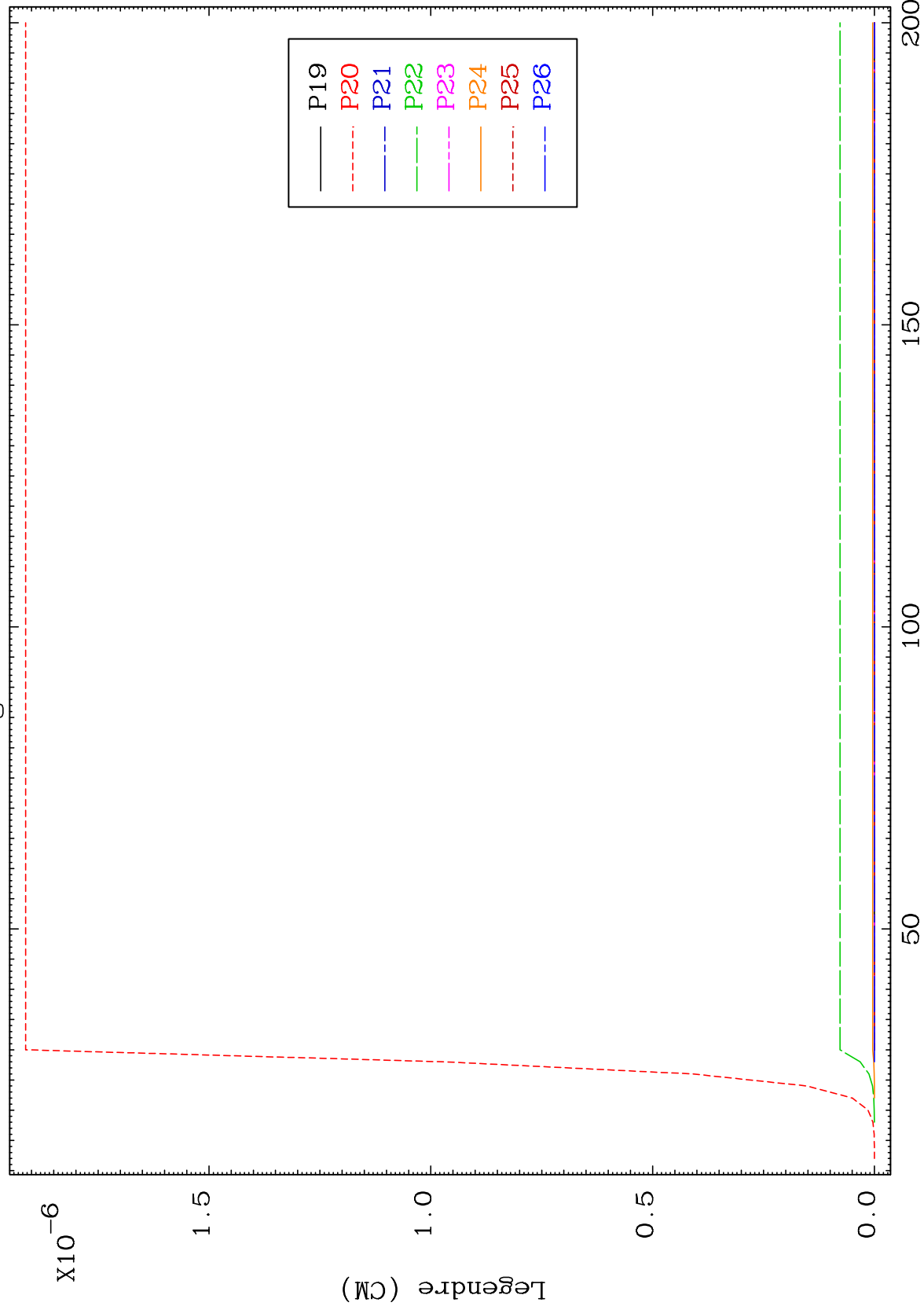
Incident Energy (MeV)

61-Pm-156

MAT 6176

MT= 58 (n,n') Level
Legendre Coefficients

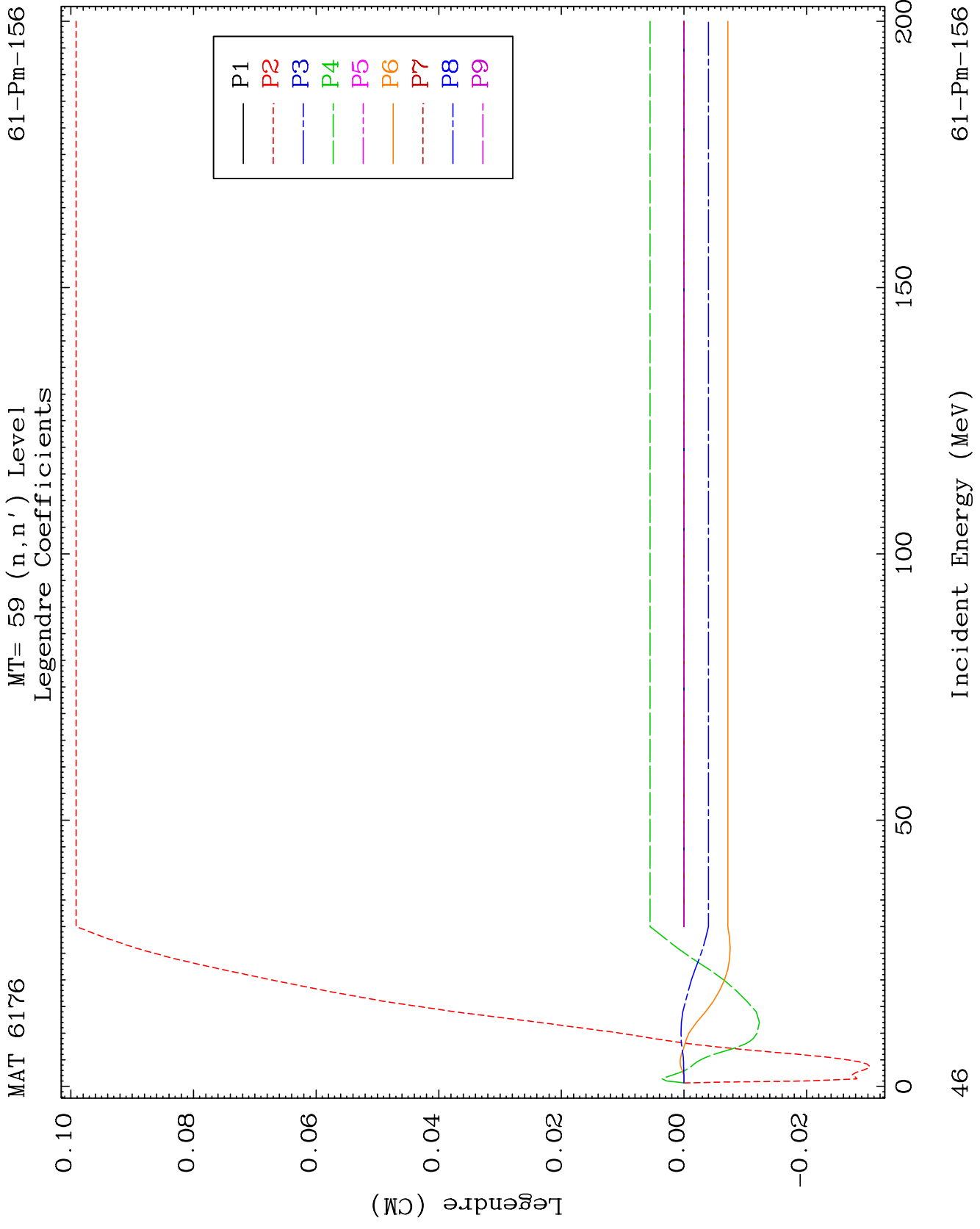
61-Pm-156



61-Pm-156

Incident Energy (MeV)

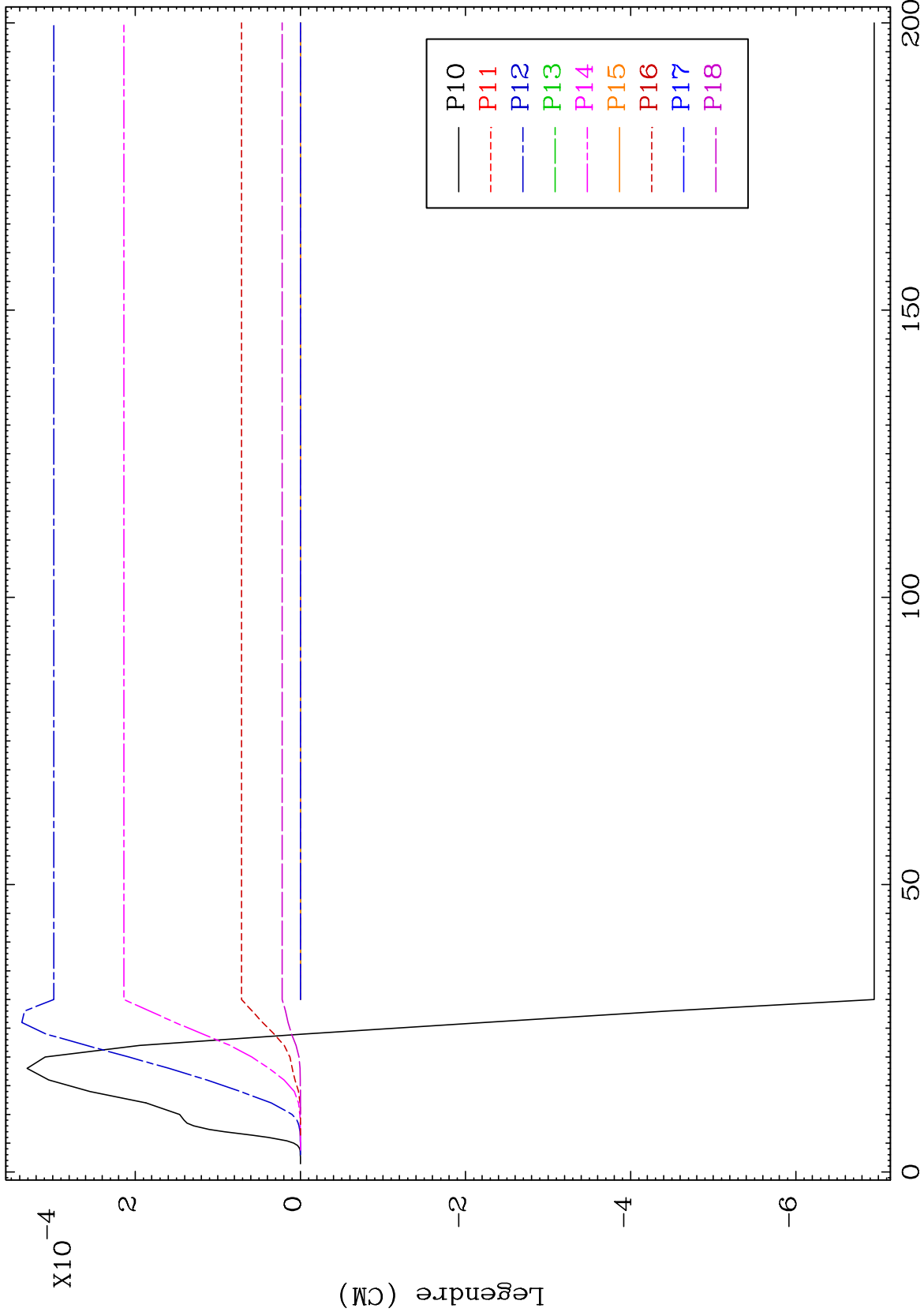
45



MAT 6176

MT= 59 (n,n') Level
Legendre Coefficients

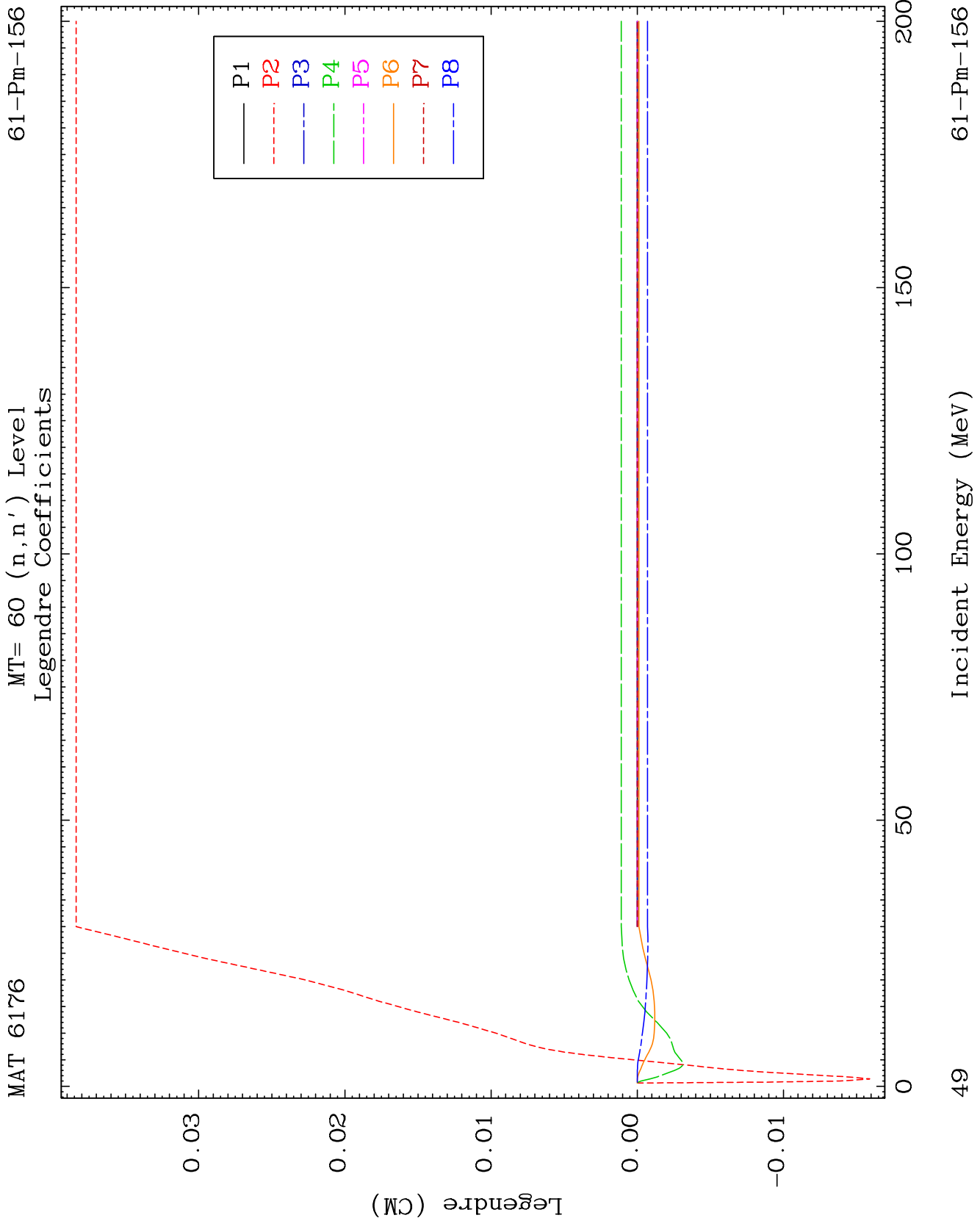
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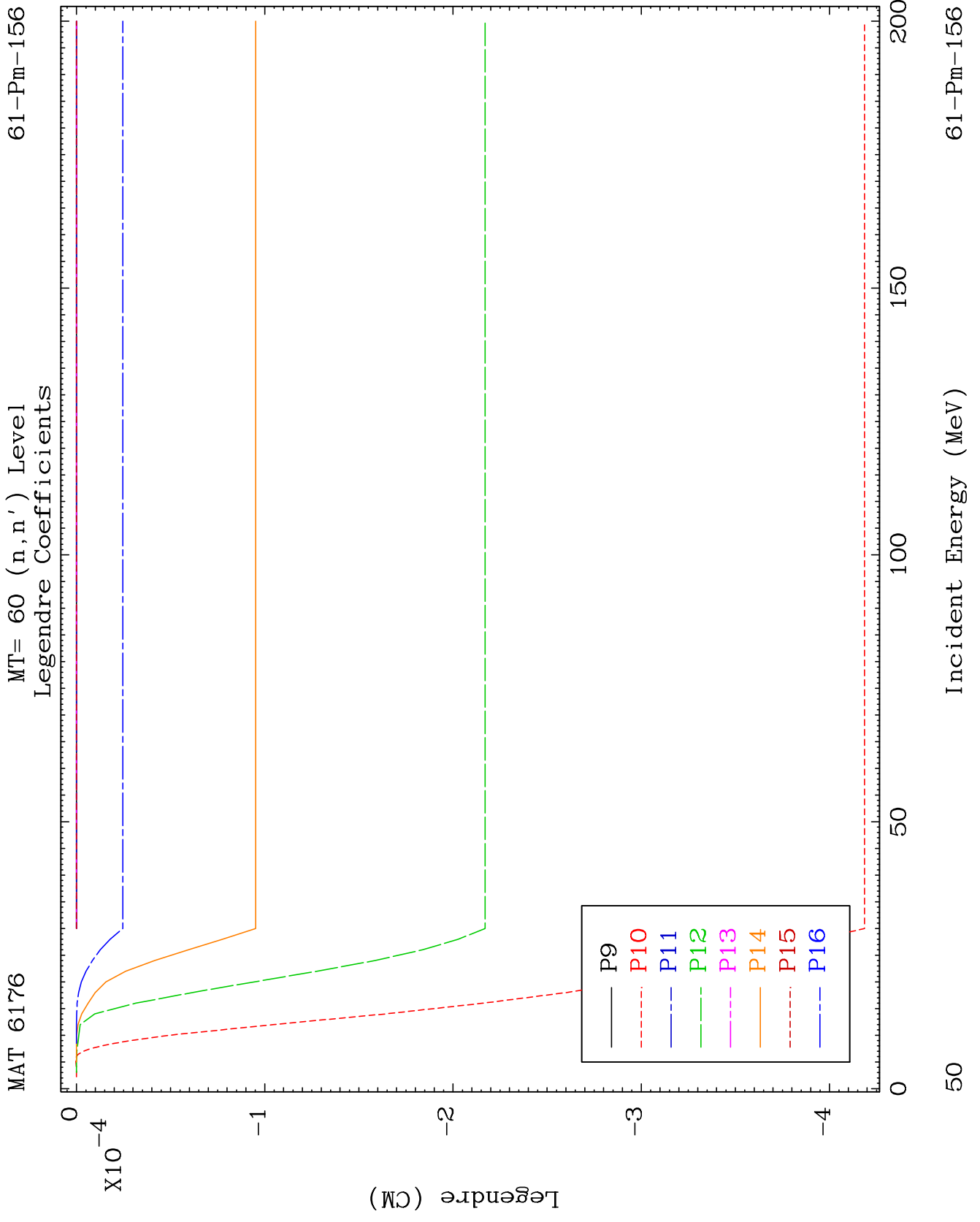


47

Incident Energy (MeV)

61-Pm-156

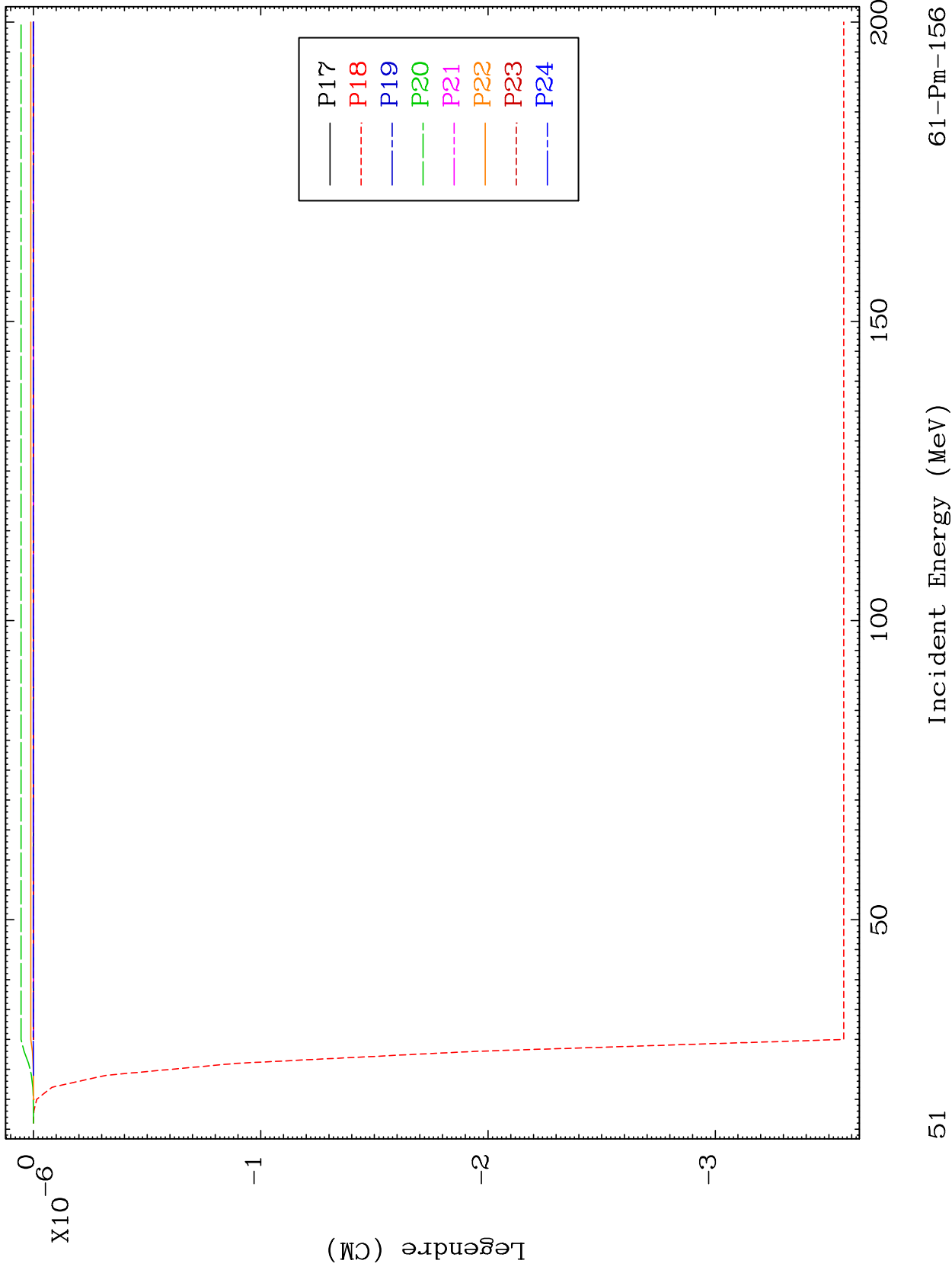




MAT 6176

MT= 60 (n,n') Level
Legendre Coefficients

61-Pm-156



51

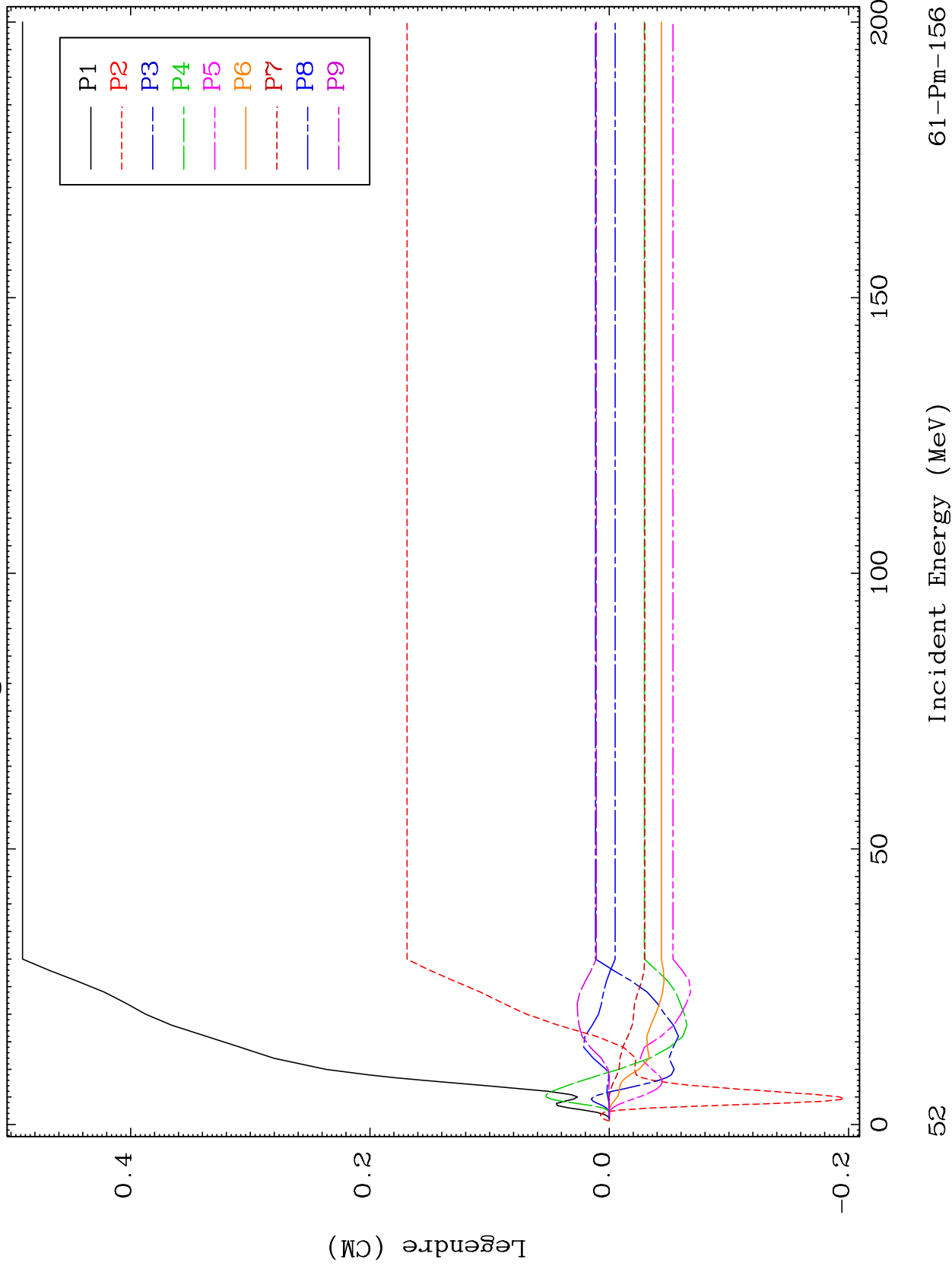
Incident Energy (MeV)

61-Pm-156

MAT 6176

MT= 61 (n,n') Level
Legendre Coefficients

61-Pm-156



61-Pm-156

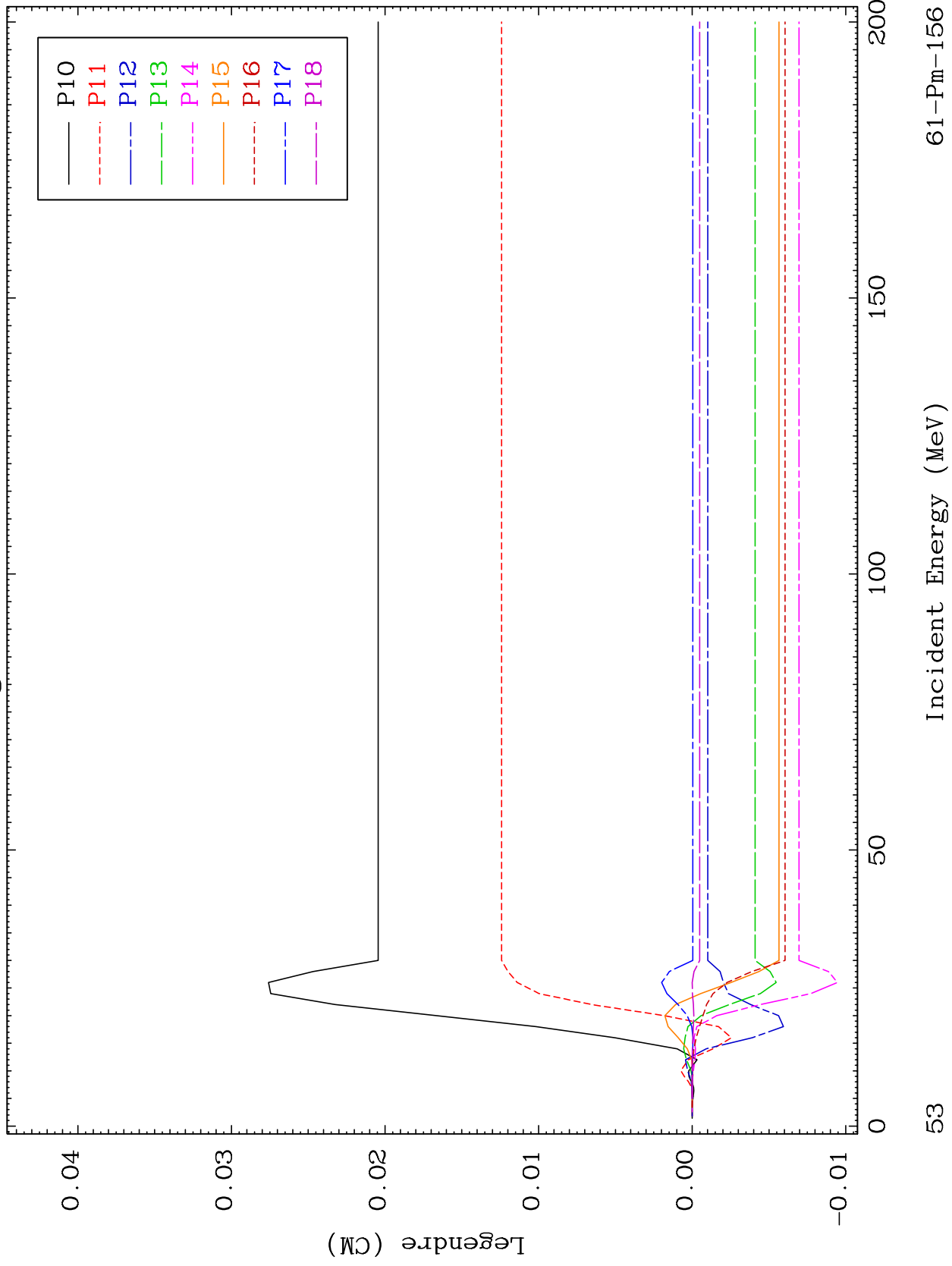
Incident Energy (MeV)

52

MAT 6176

MT= 61 (n,n') Level
Legendre Coefficients

61-Pm-156



53

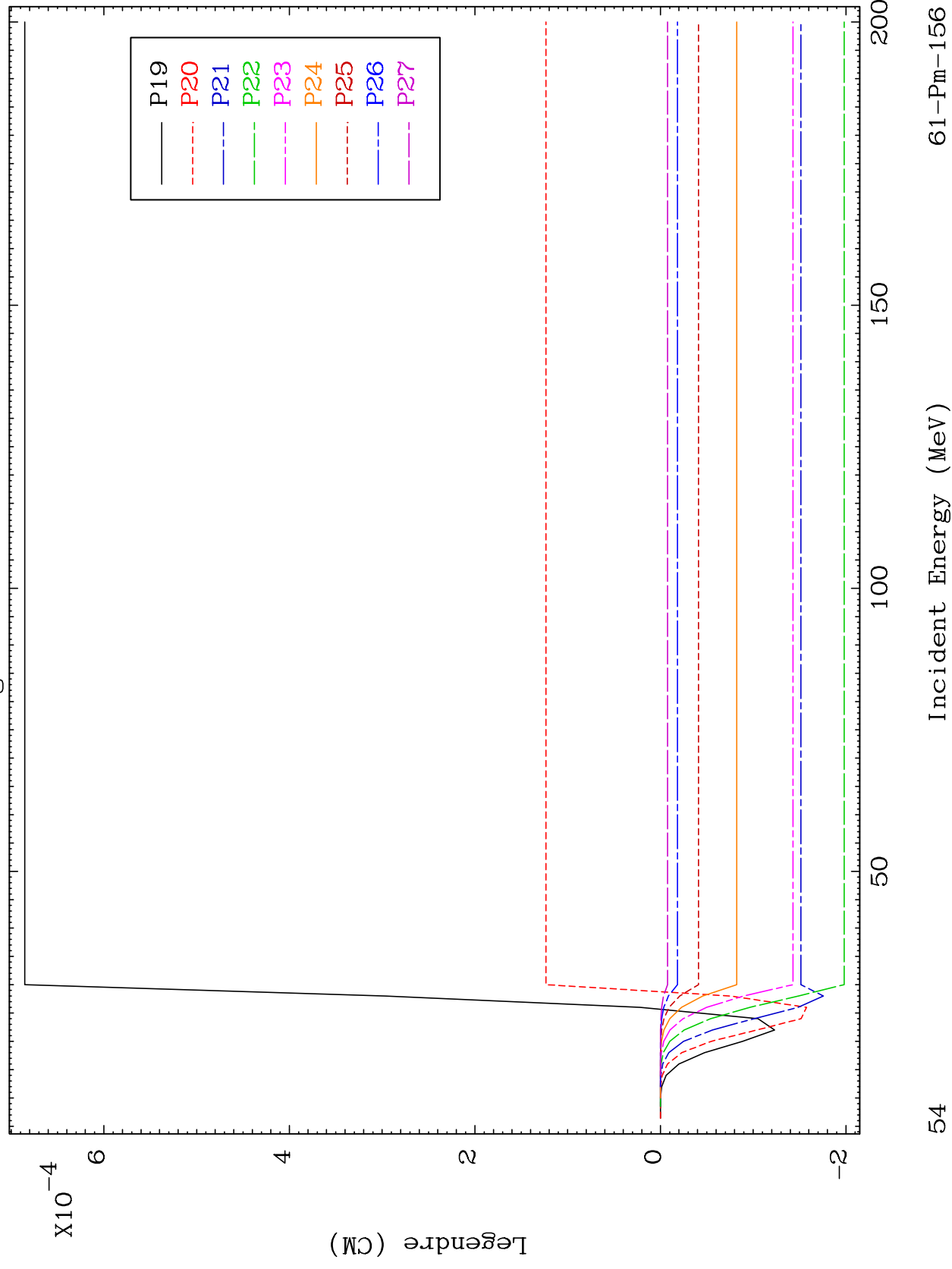
Incident Energy (MeV)

61-Pm-156

MAT 6176

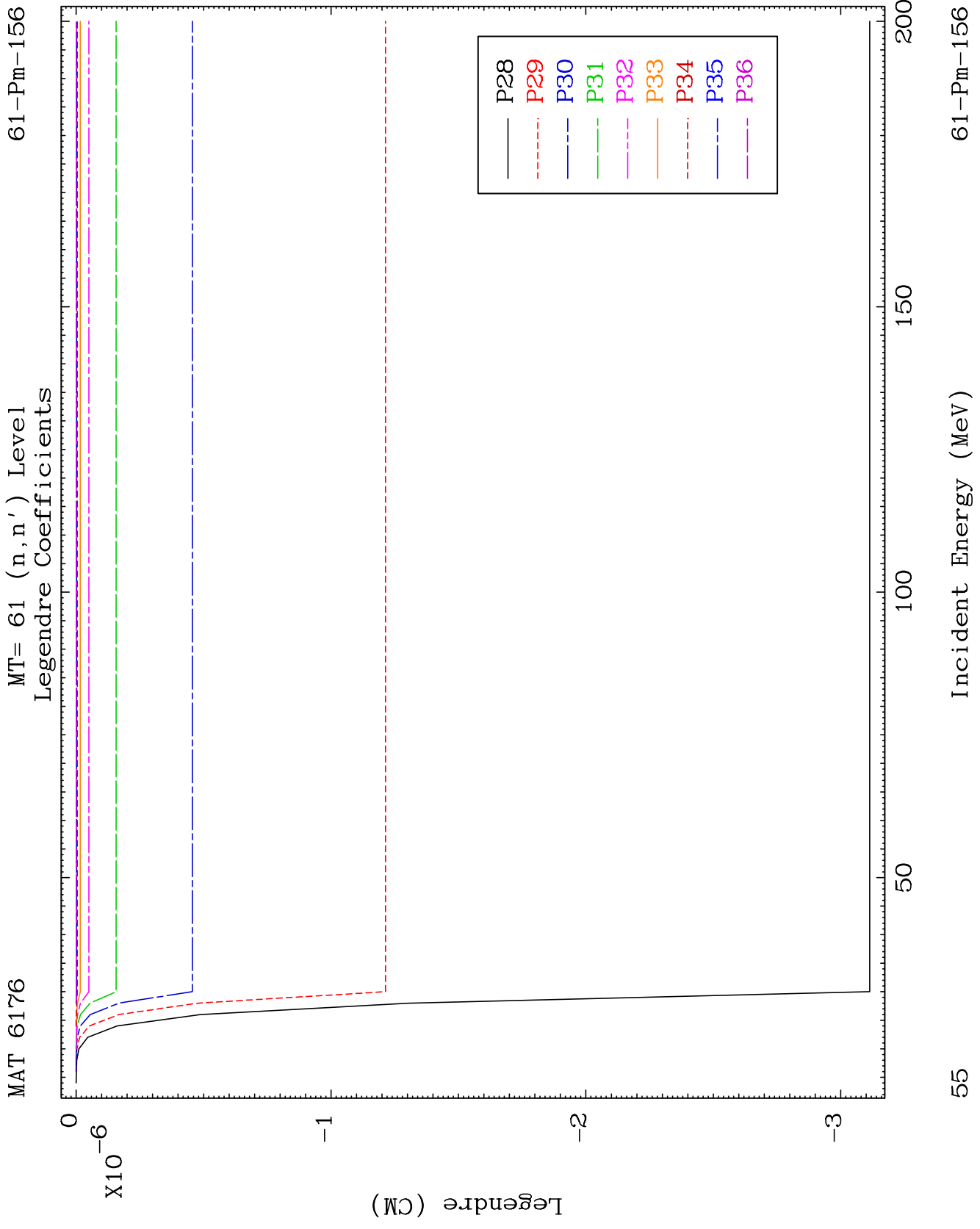
MT= 61 (n,n') Level
Legendre Coefficients

61-Pm-156



54

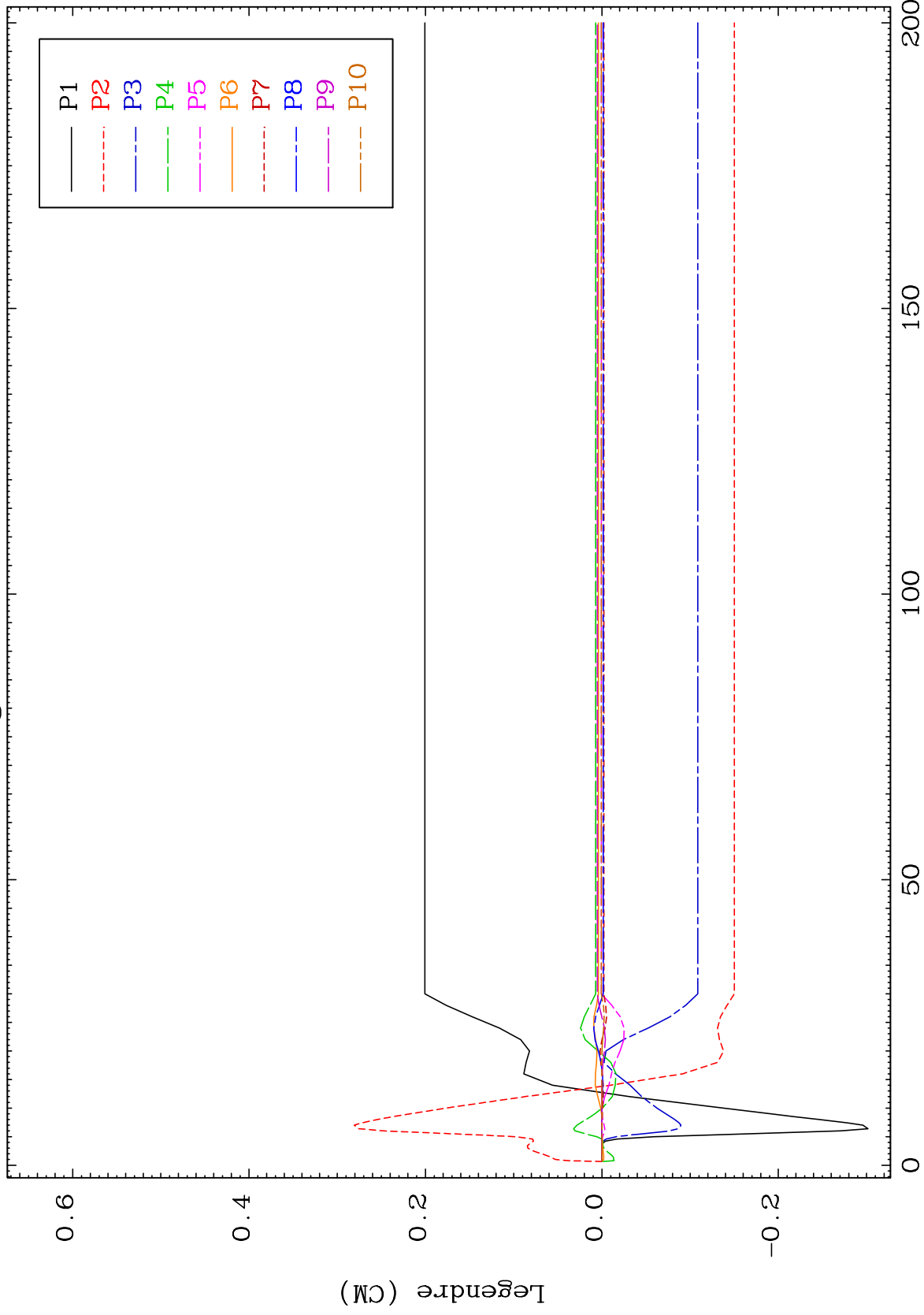
61-Pm-156



MAT 6176

MT= 62 (n,n') Level
Legendre Coefficients

61-Pm-156



56

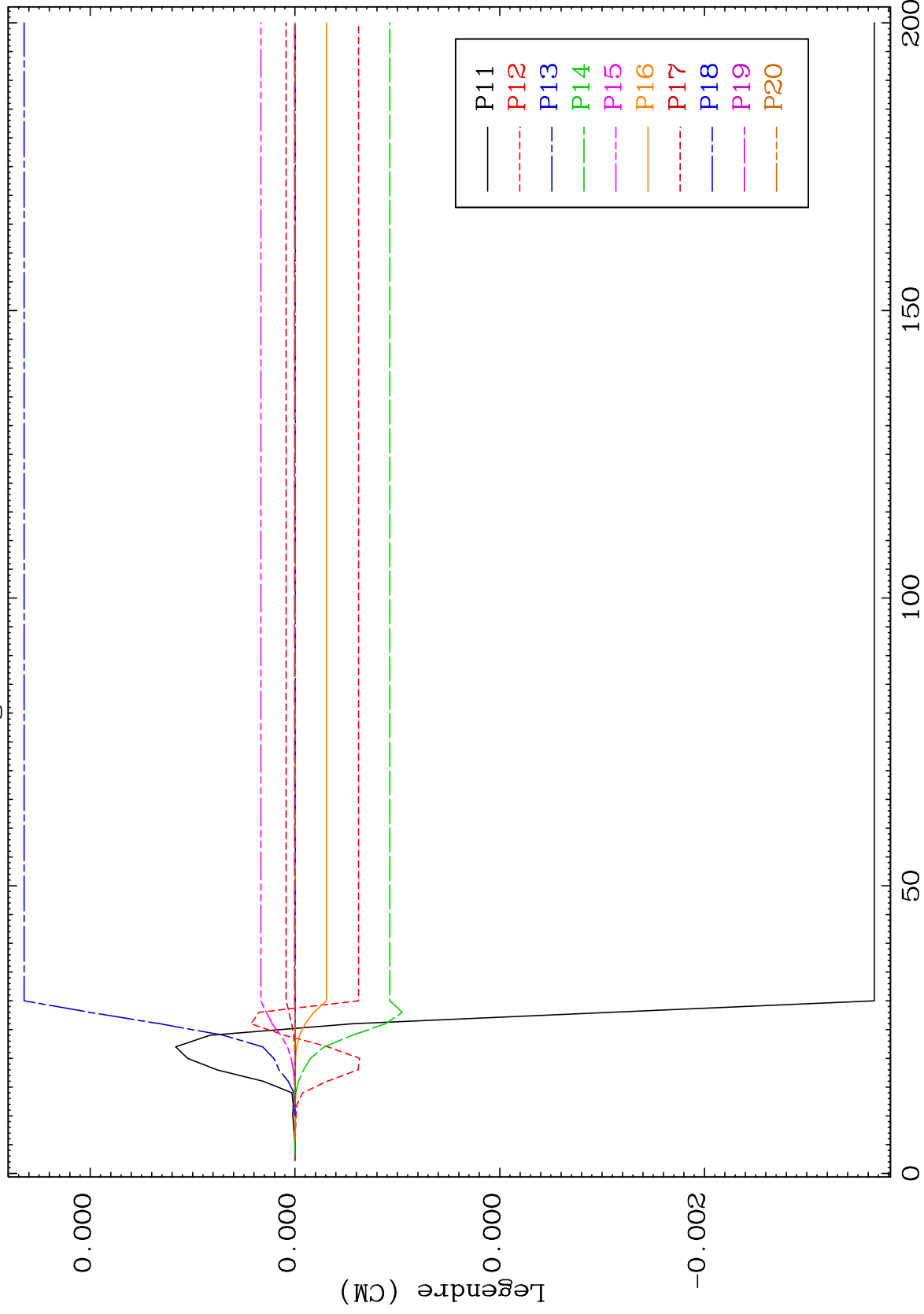
Incident Energy (MeV)

61-Pm-156

MAT 6176

MT= 62 (n,n') Level
Legendre Coefficients

61-Pm-156



57

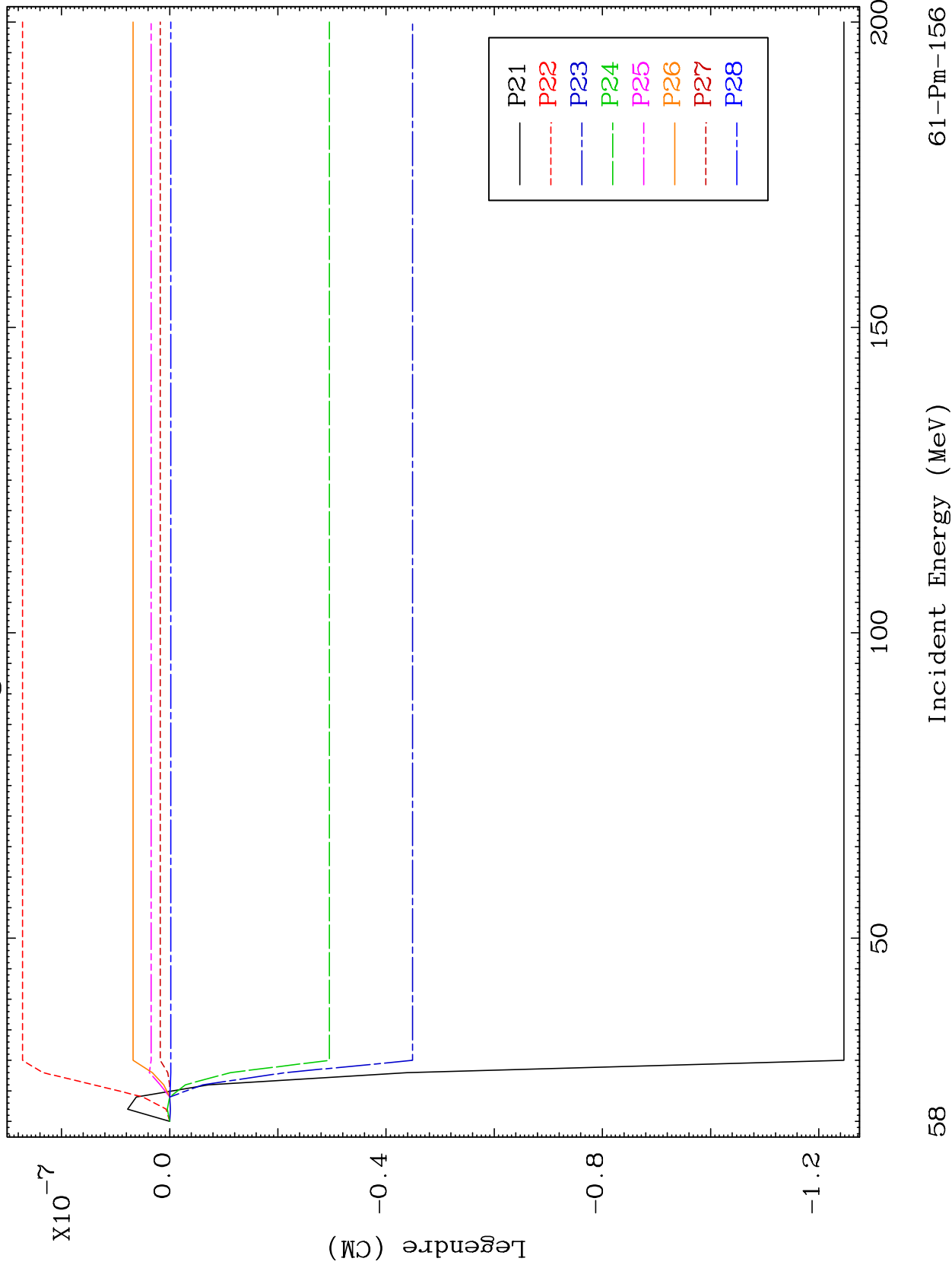
Incident Energy (MeV)

61-Pm-156

MAT 6176

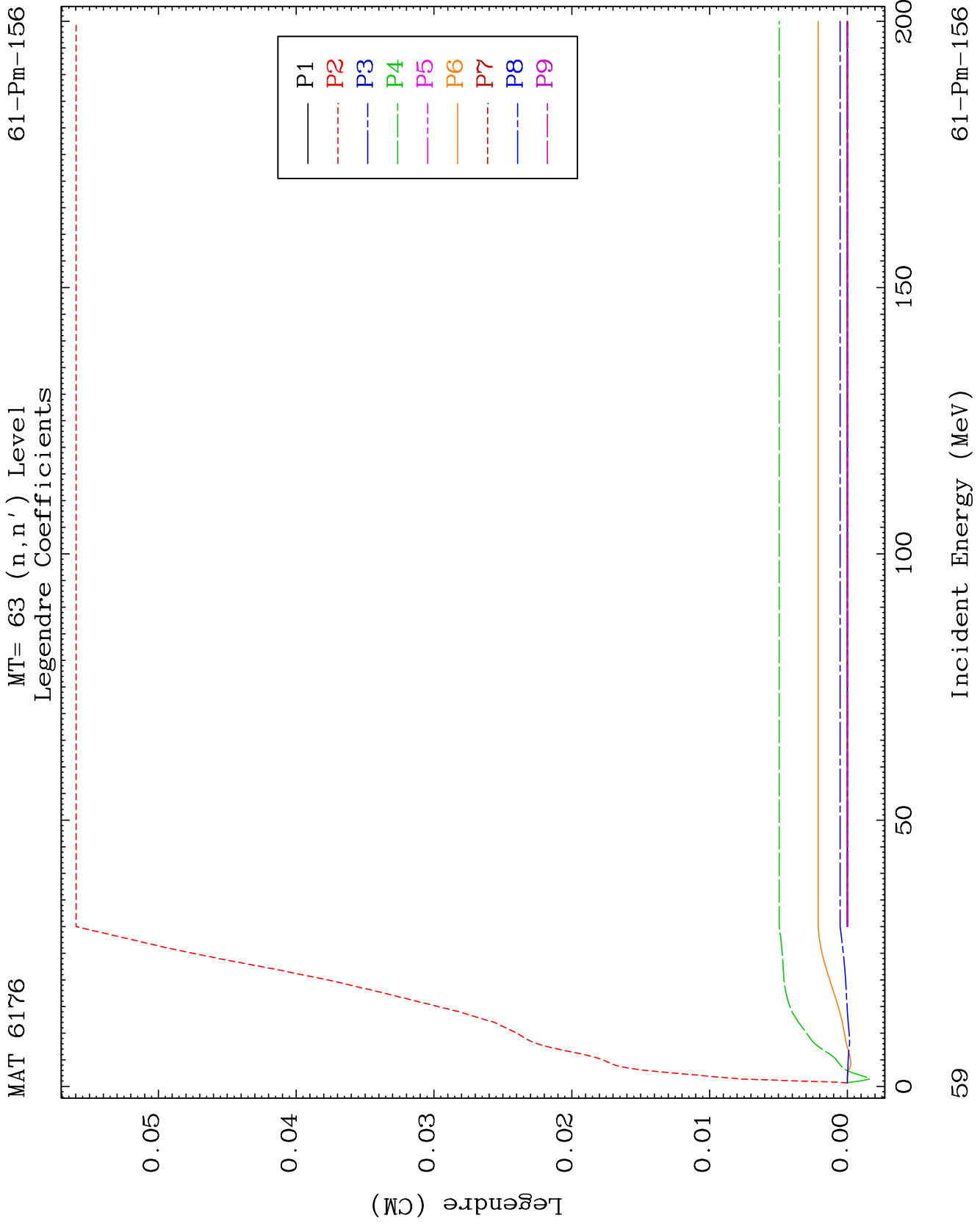
MT= 62 (n,n') Level
Legendre Coefficients

61-Pm-156



58

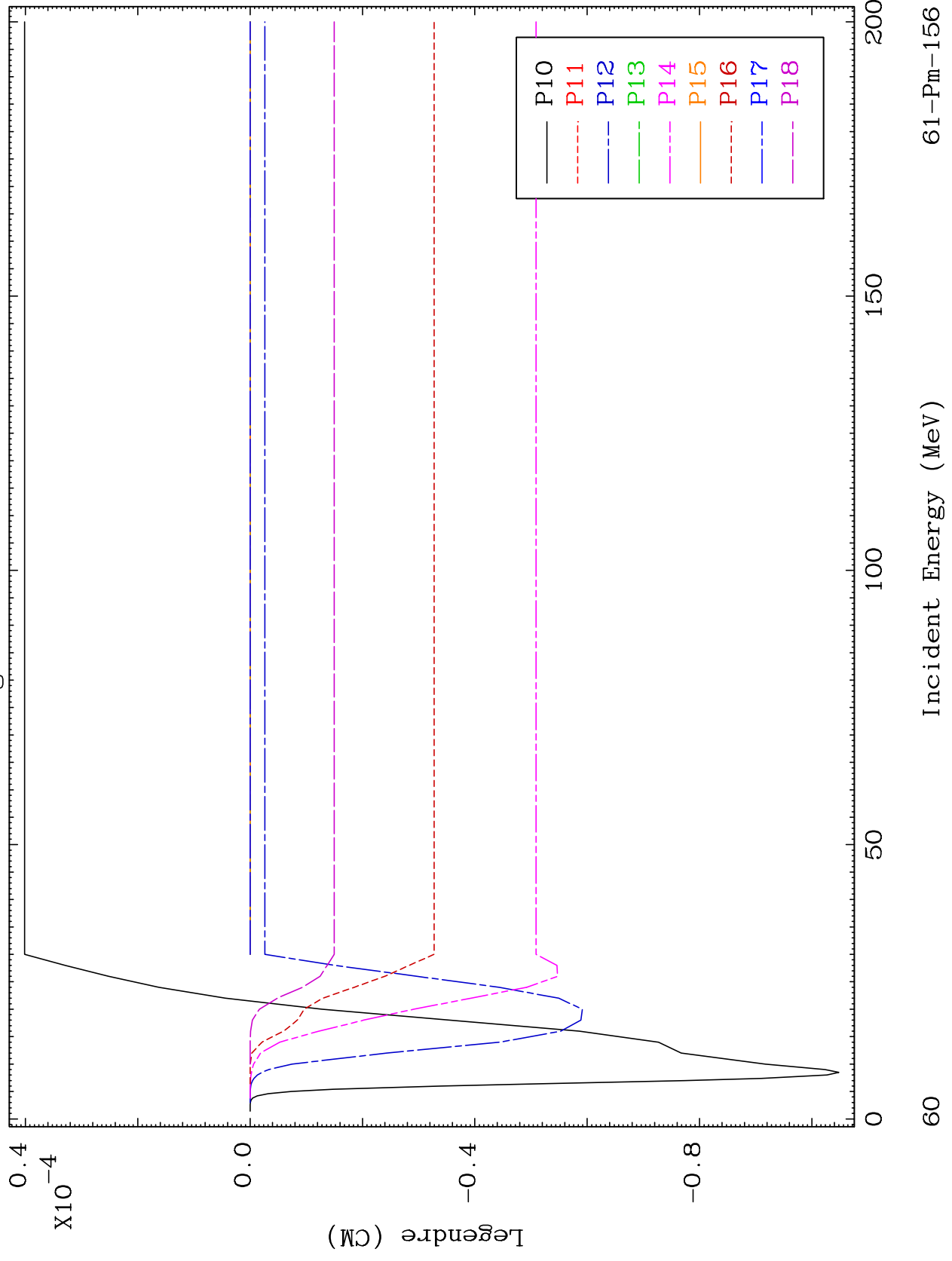
61-Pm-156



MAT 6176

MT= 63 (n,n') Level
Legendre Coefficients

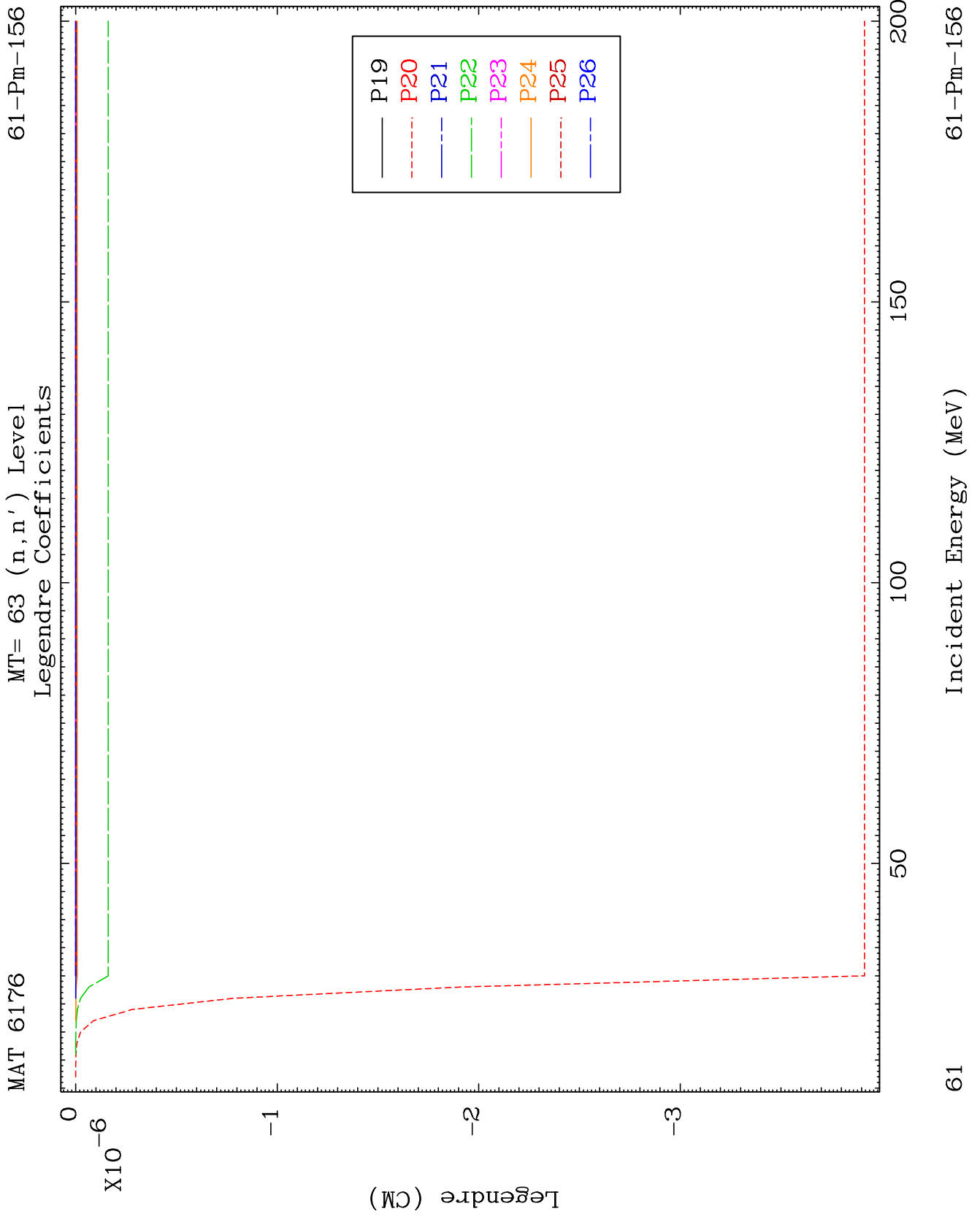
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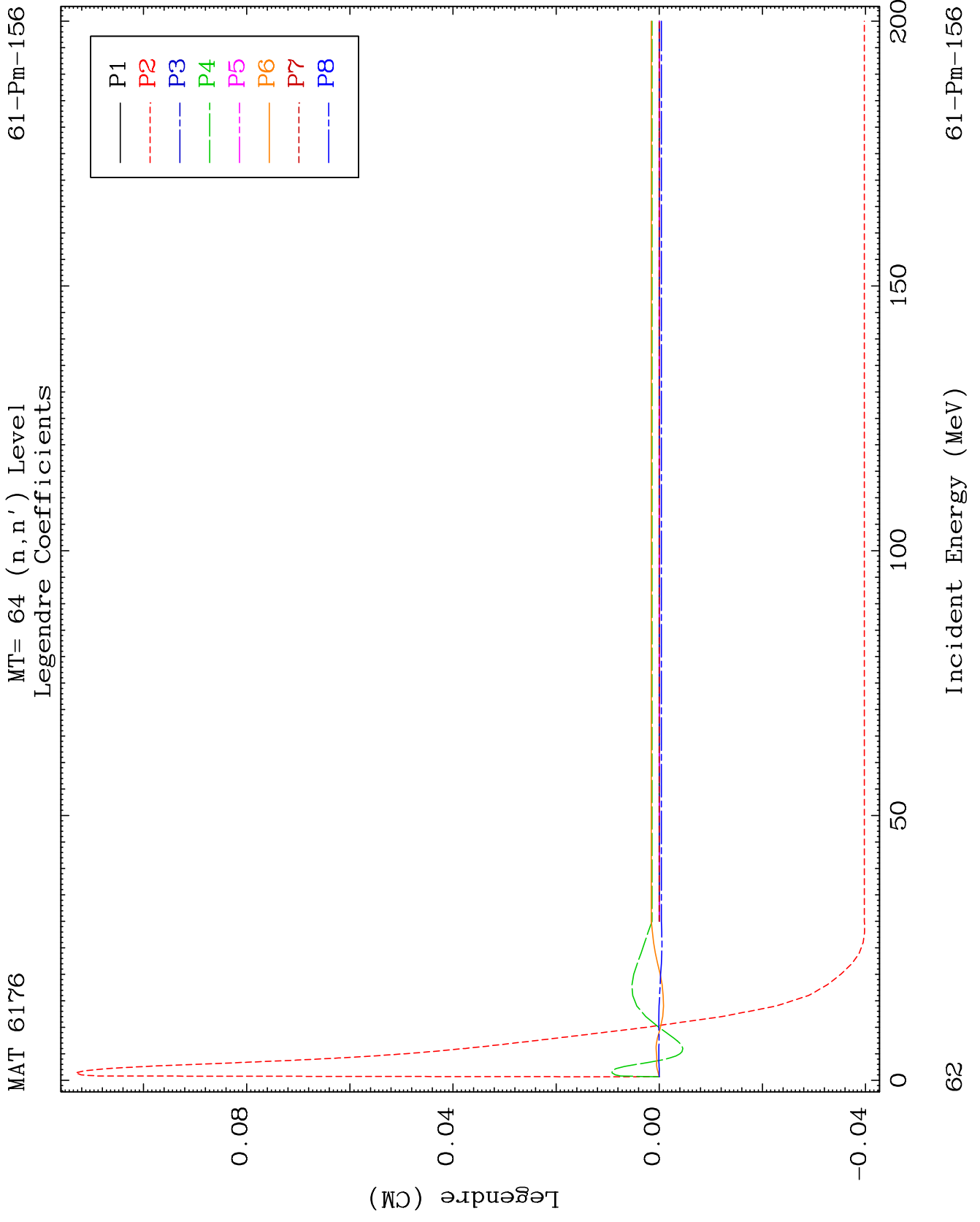


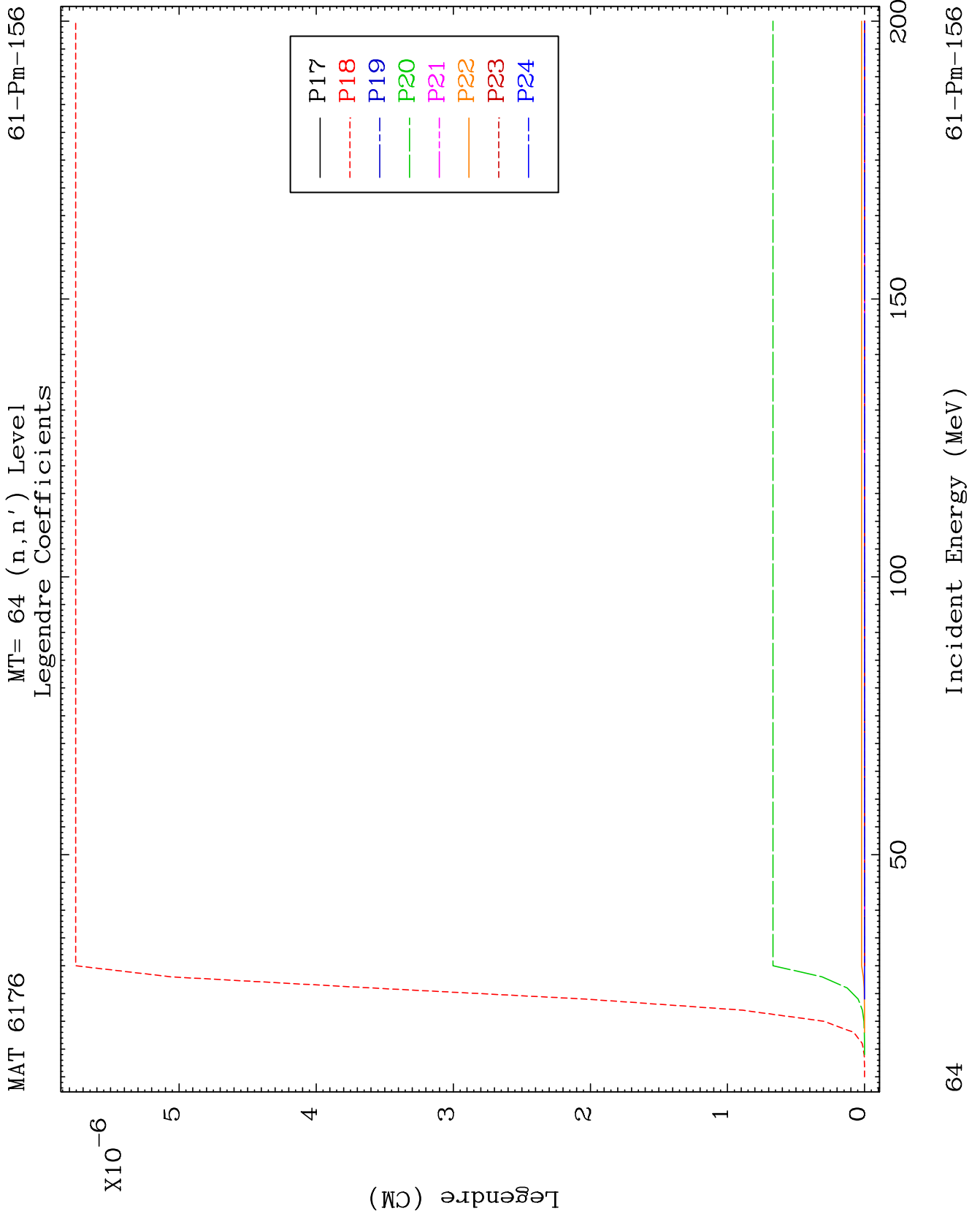
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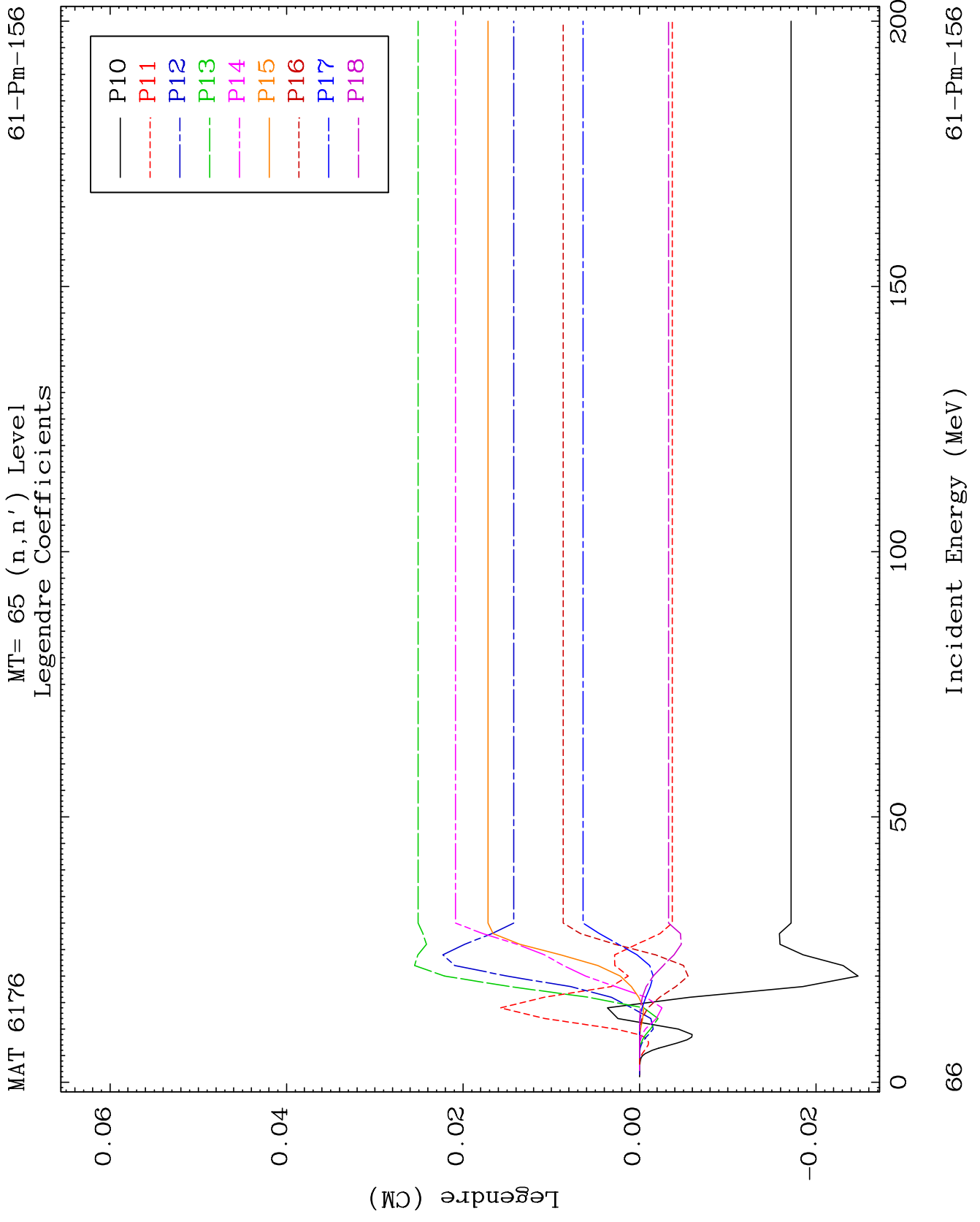
Incident Energy (MeV)

60





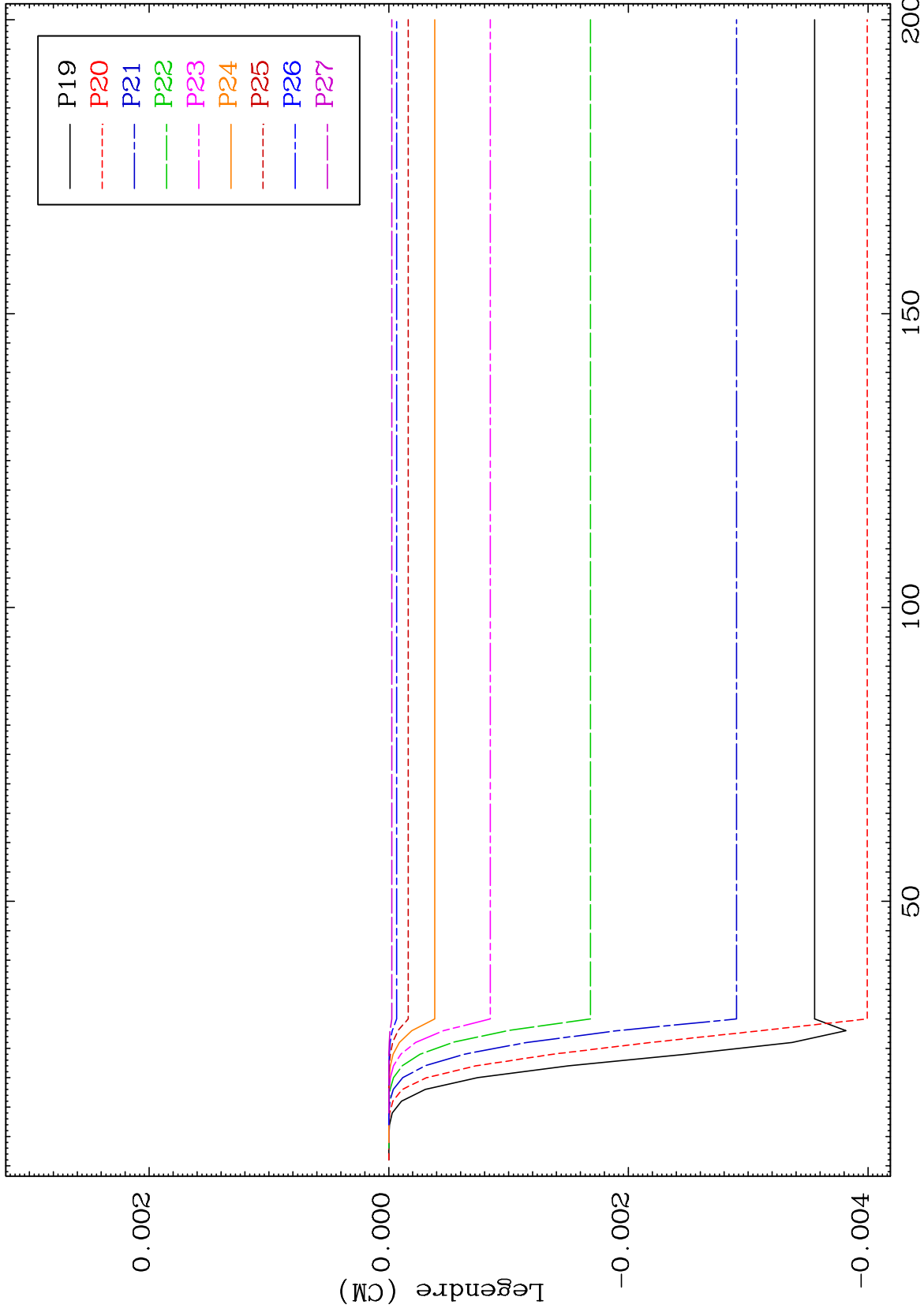




MAT 6176

MT= 65 (n,n') Level
Legendre Coefficients

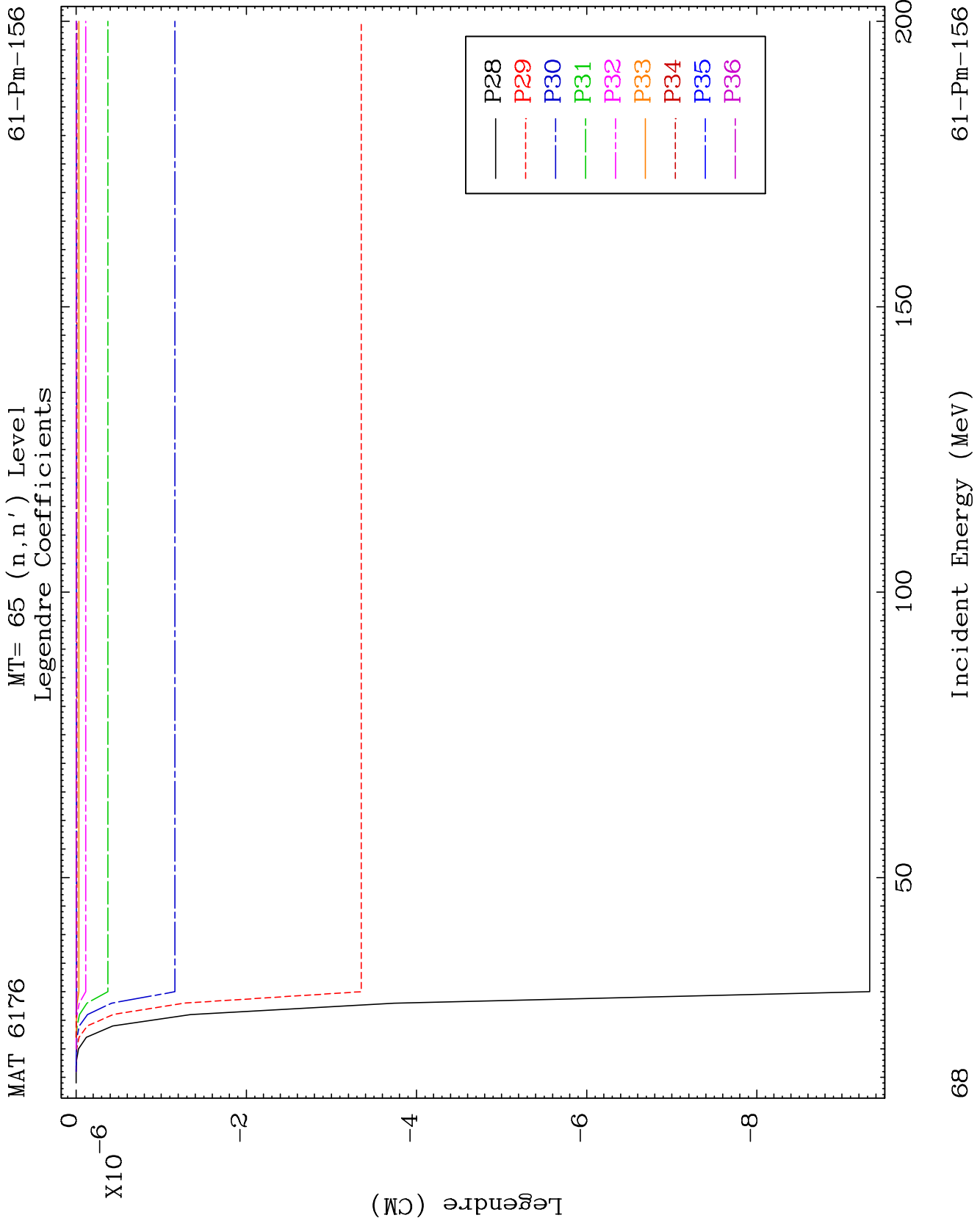
61-Pm-156

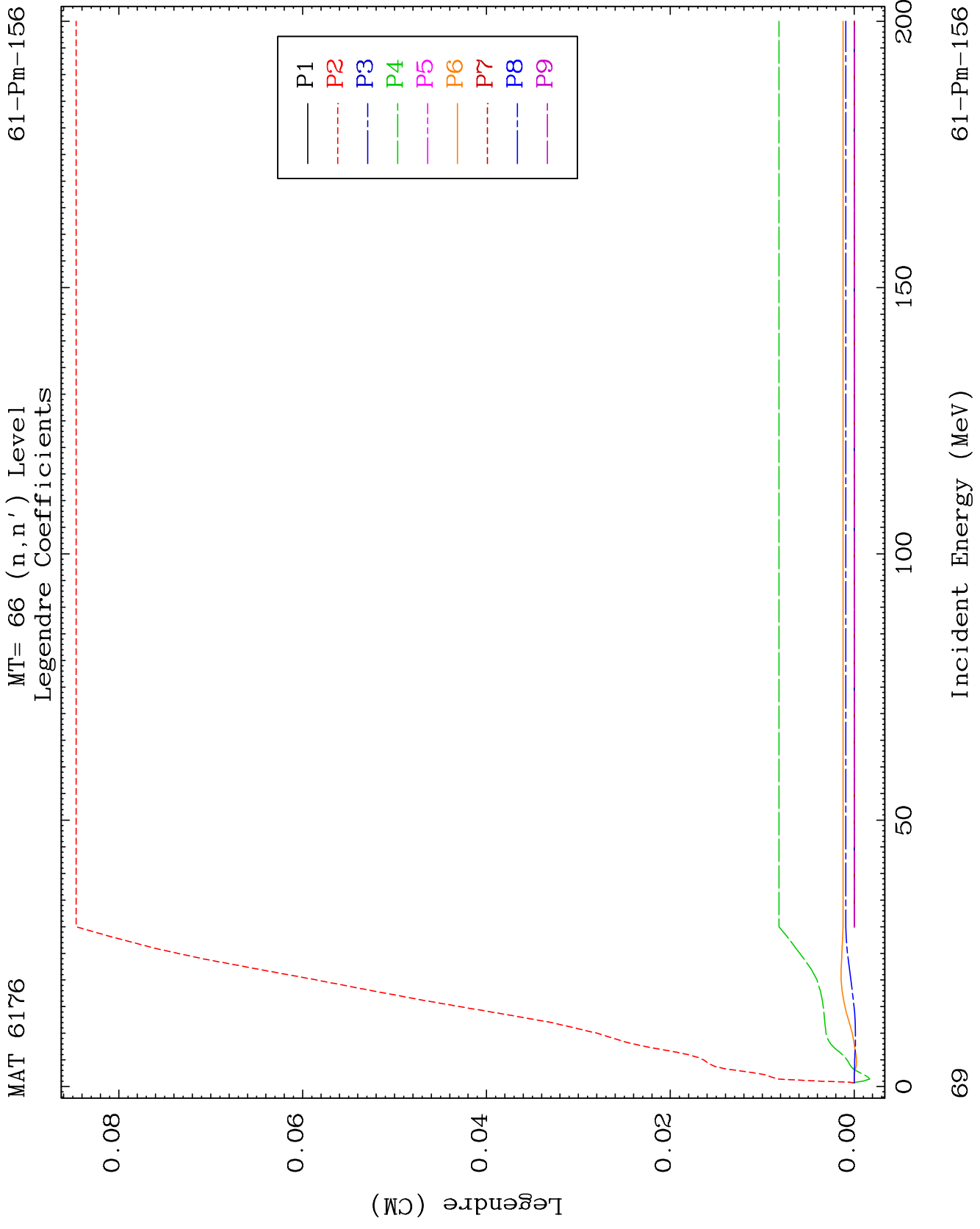


67

Incident Energy (MeV)

61-Pm-156

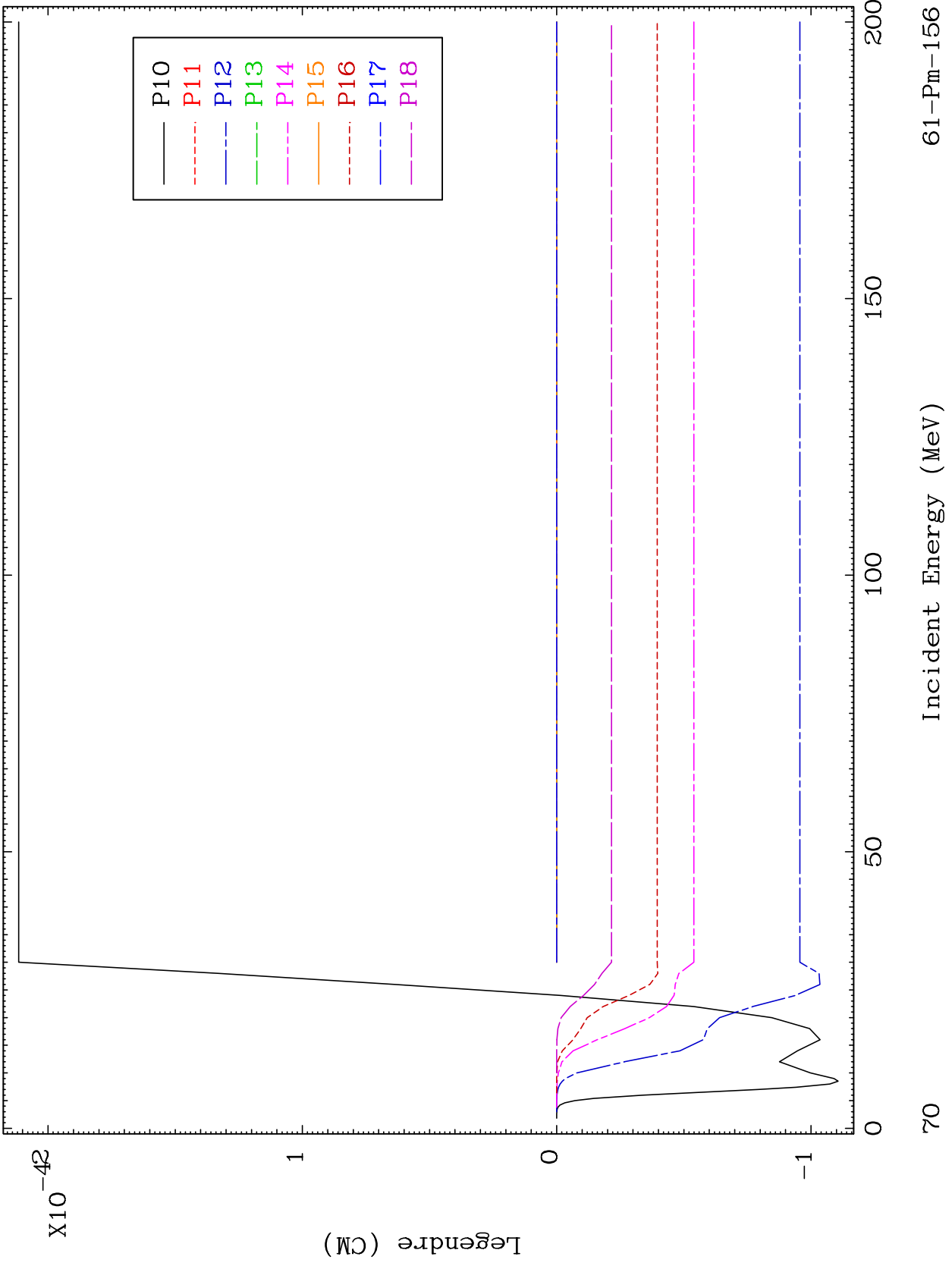


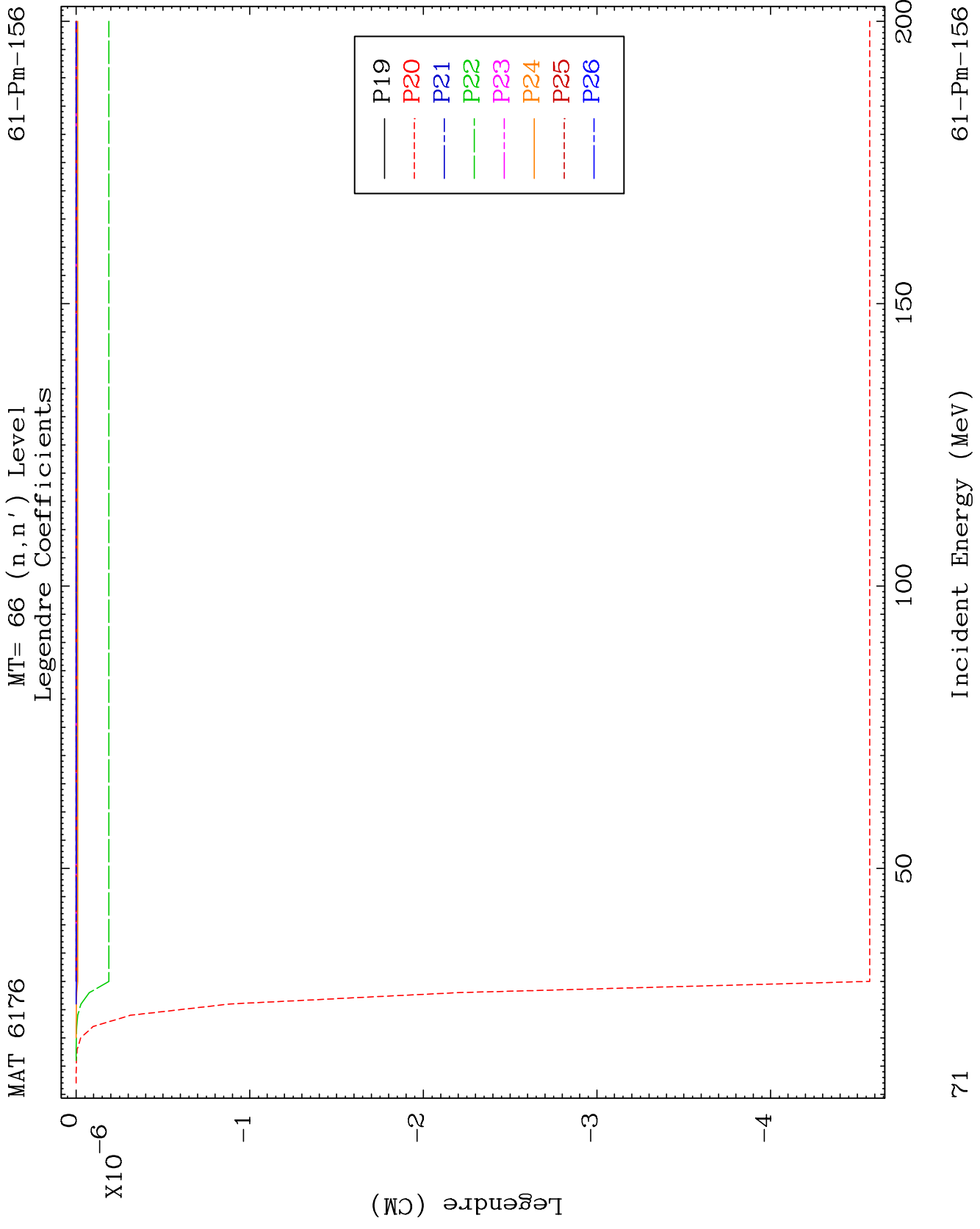


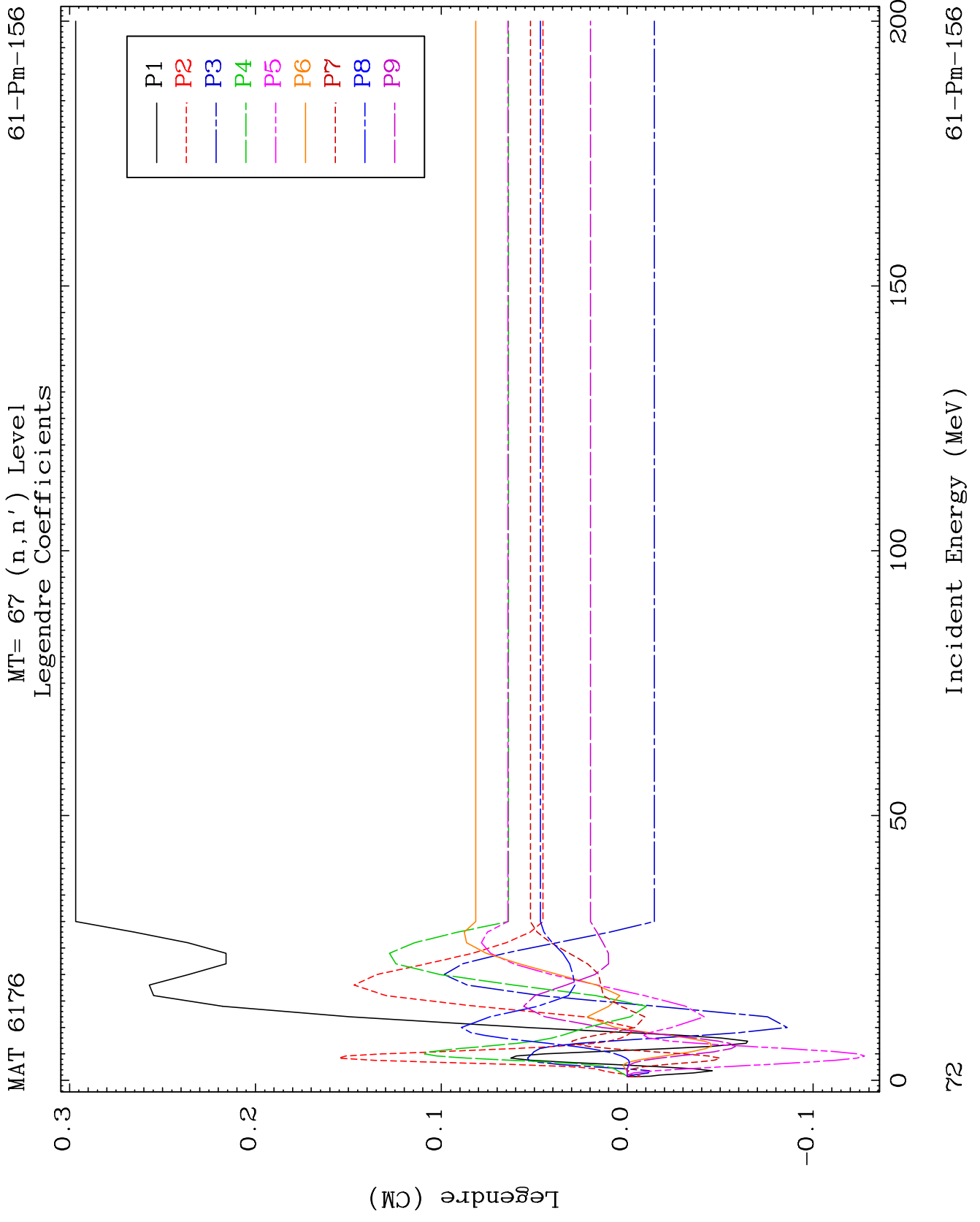
MAT 6176

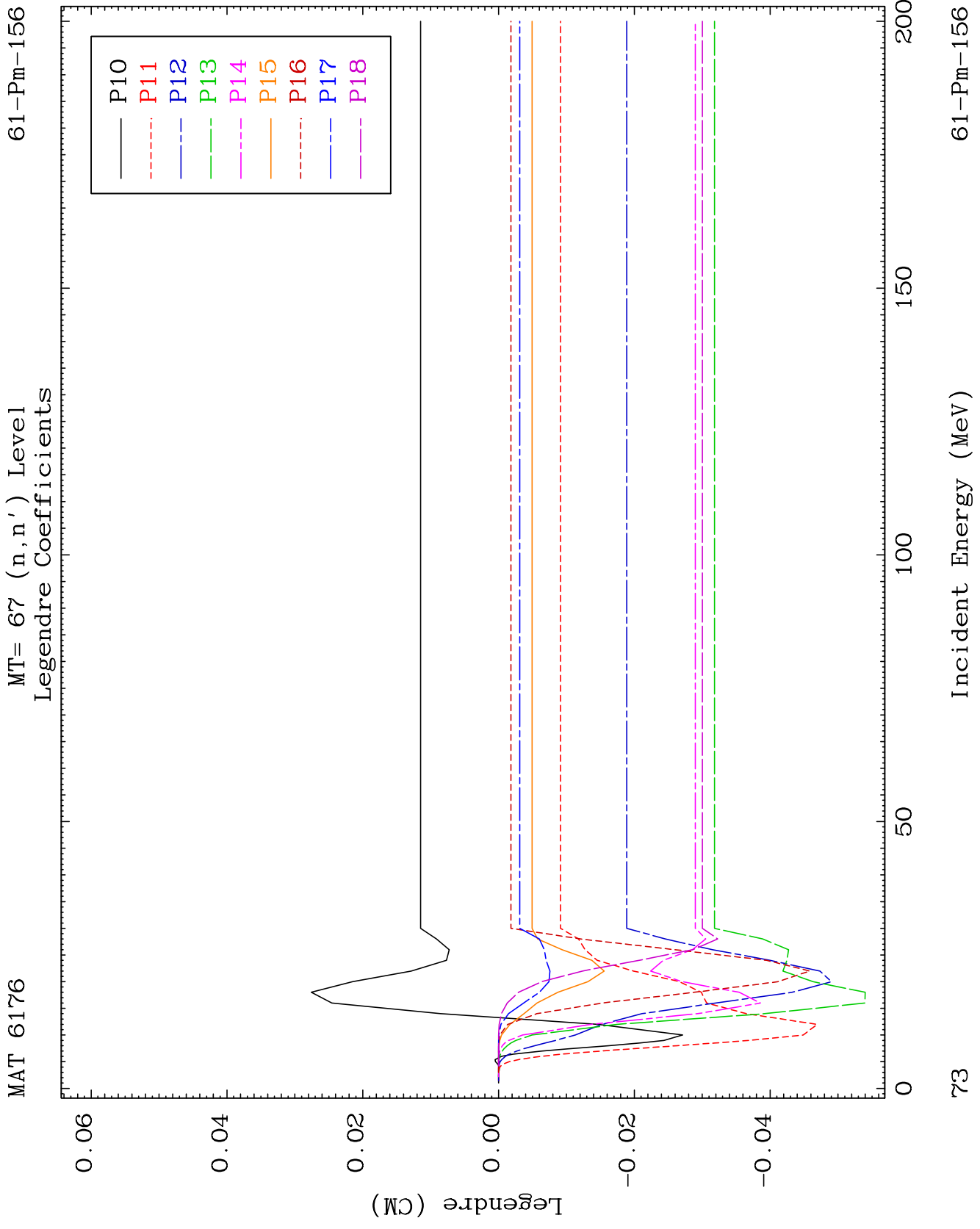
MT= 66 (n,n') Level
Legendre Coefficients

61-Pm-156





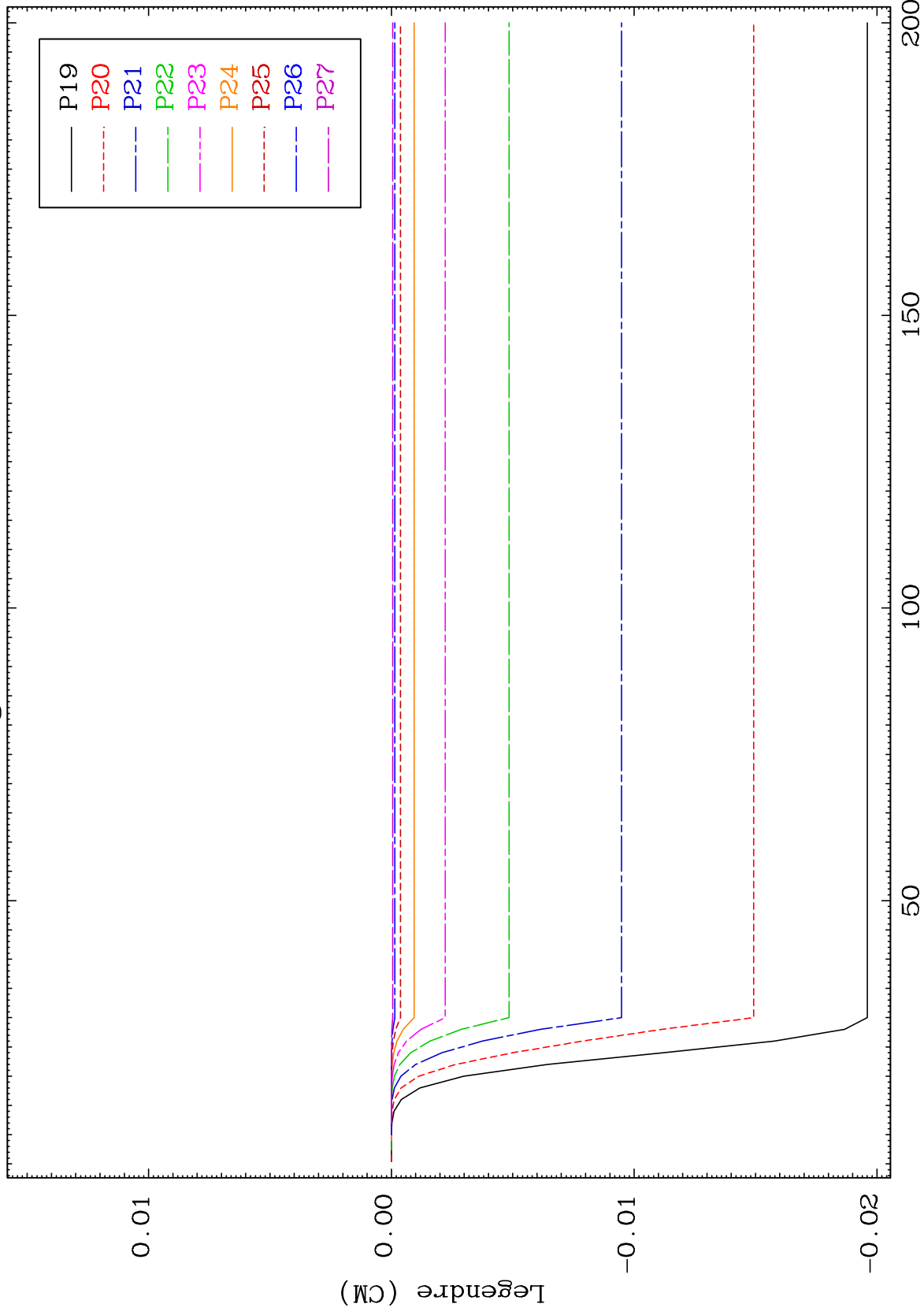




MAT 6176

MT= 67 (n,n') Level
Legendre Coefficients

61-Pm-156



74

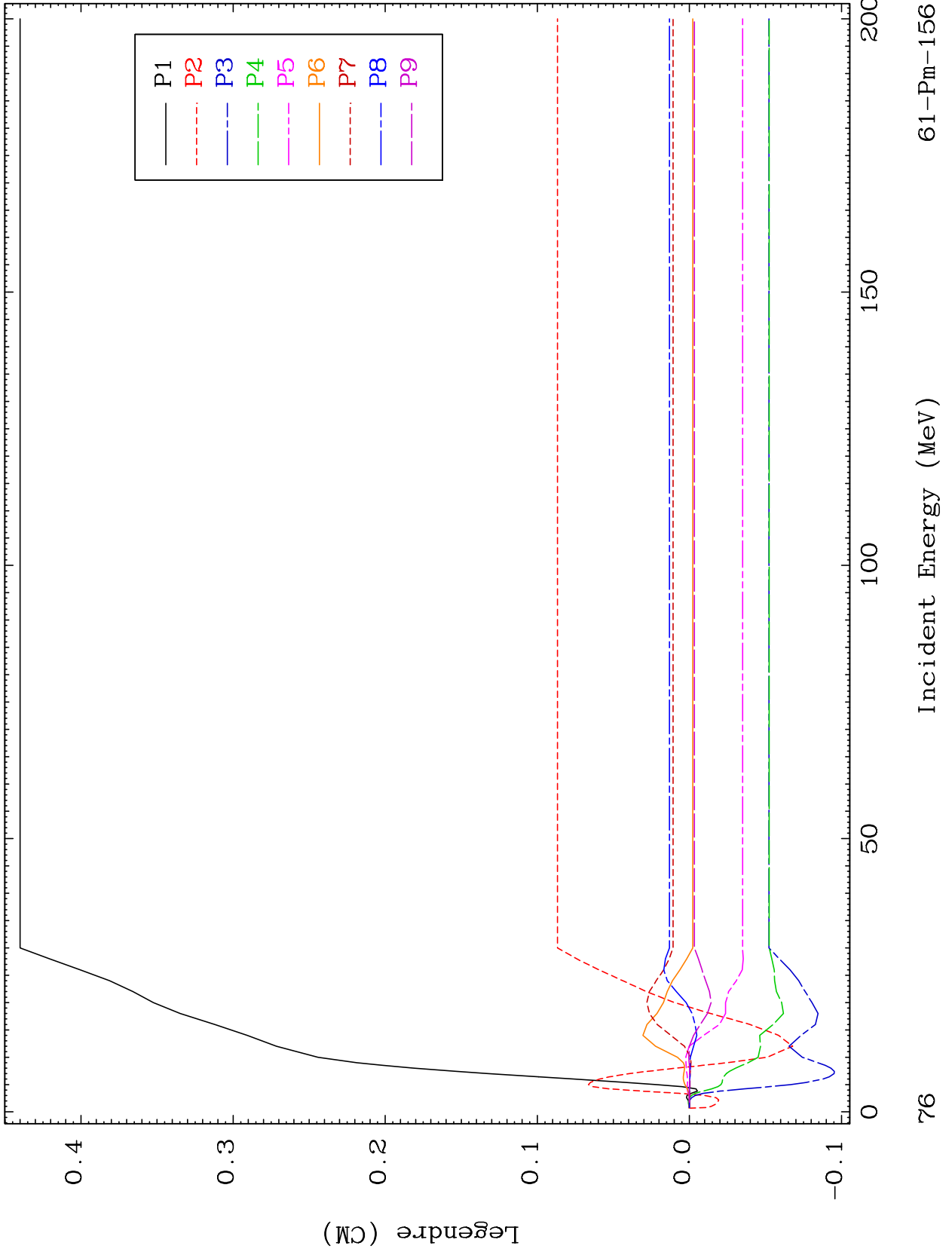
Incident Energy (MeV)

61-Pm-156

MAT 6176

MT= 68 (n,n') Level
Legendre Coefficients

61-Pm-156



61-Pm-156

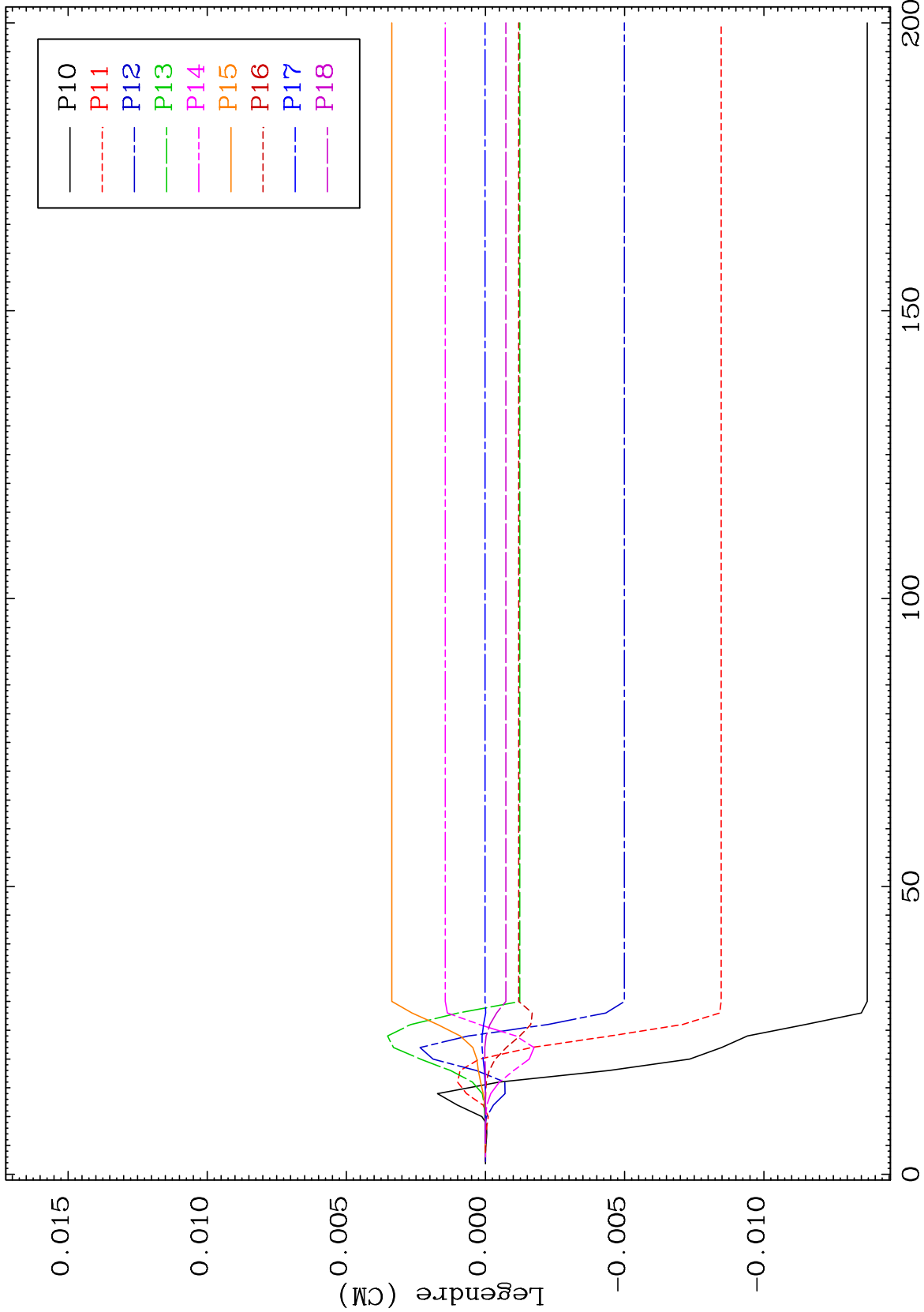
Incident Energy (MeV)

76

MAT 6176

MT= 68 (n,n') Level
Legendre Coefficients

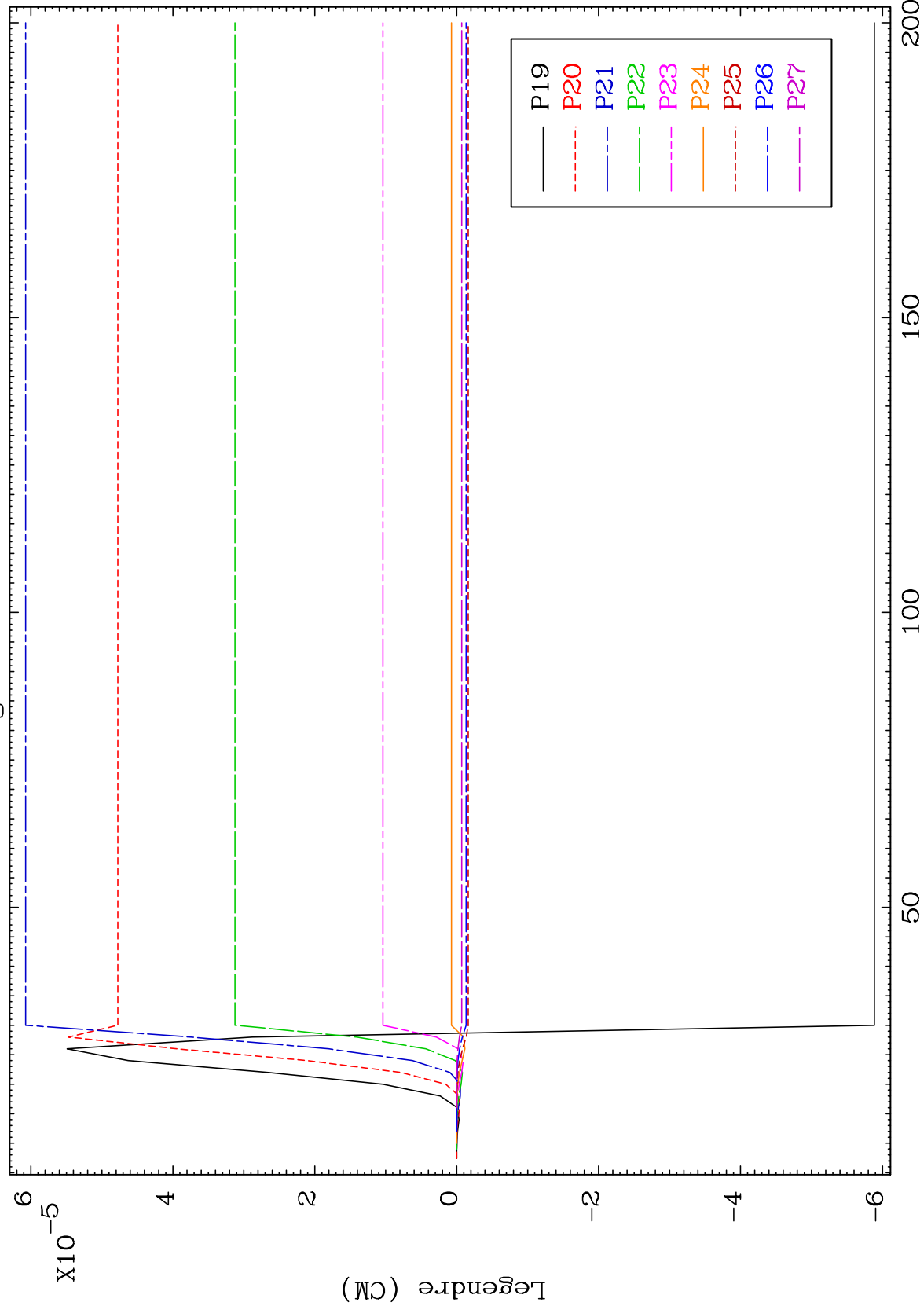
61-Pm-156



MAT 6176

MT= 68 (n,n') Level
Legendre Coefficients

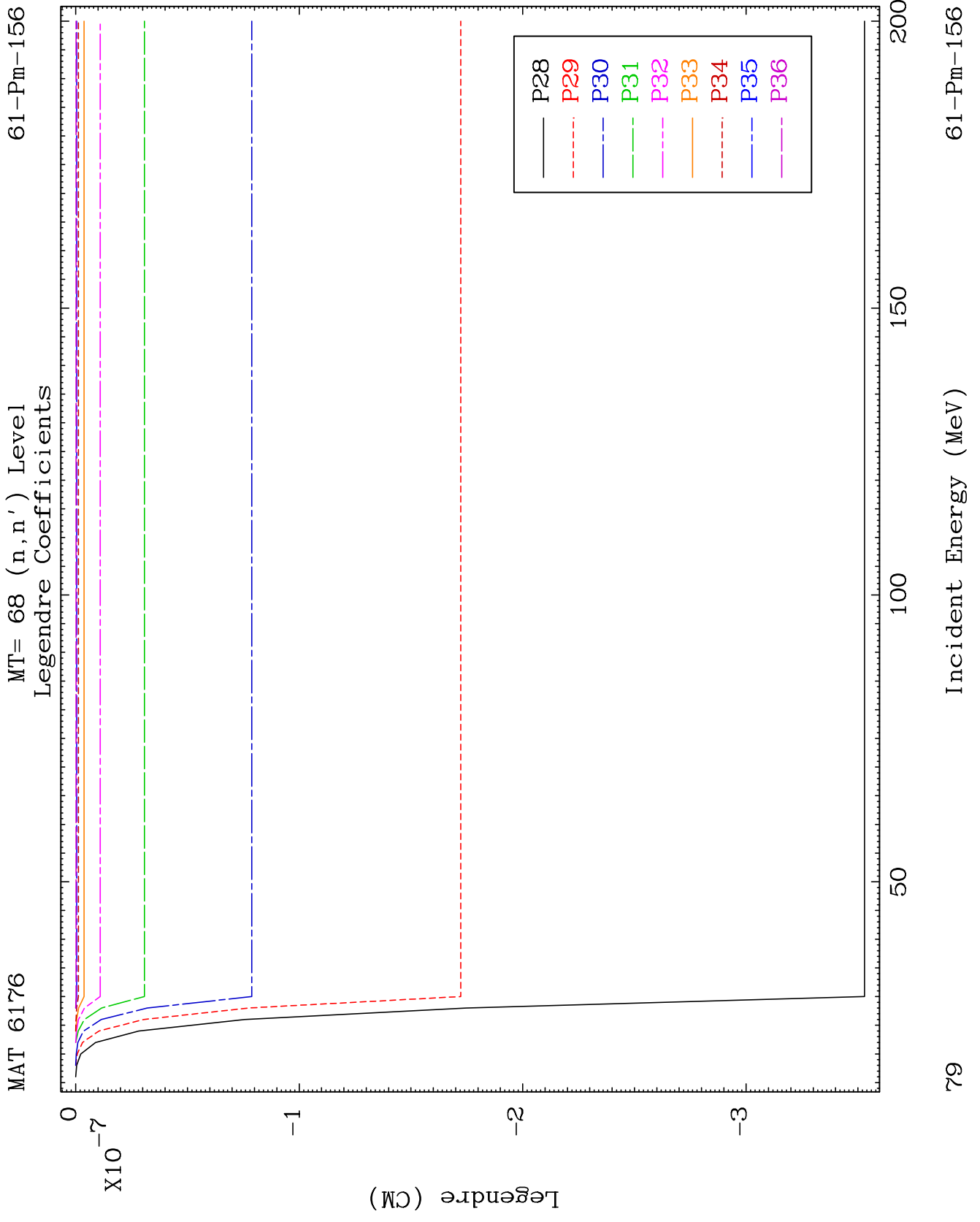
61-Pm-156



78

Incident Energy (MeV)

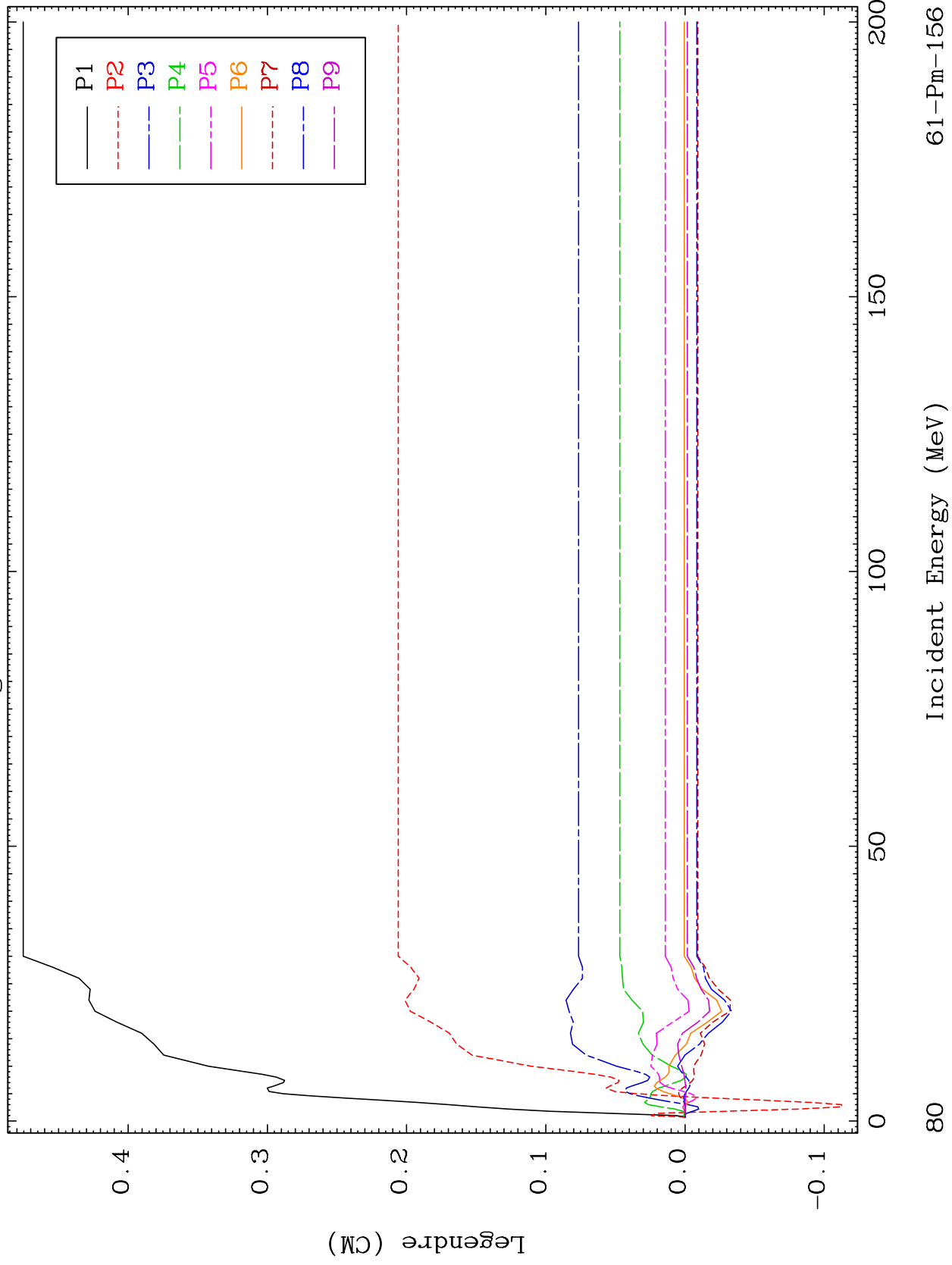
61-Pm-156



MAT 6176

MT= 69 (n,n') Level
Legendre Coefficients

61-Pm-156



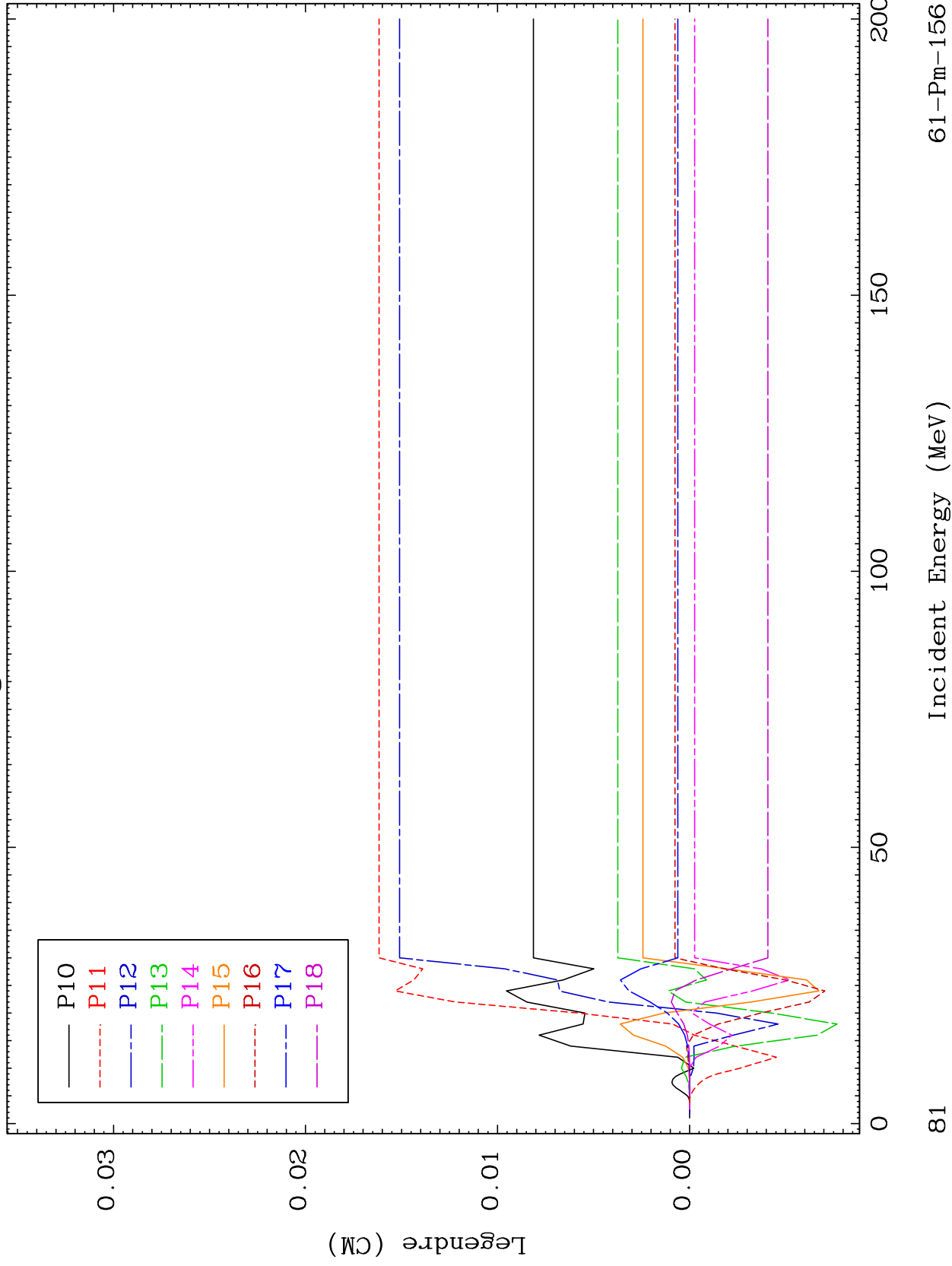
61-Pm-156

Incident Energy (MeV)

MAT 6176

MT= 69 (n,n') Level
Legendre Coefficients

61-Pm-156



81

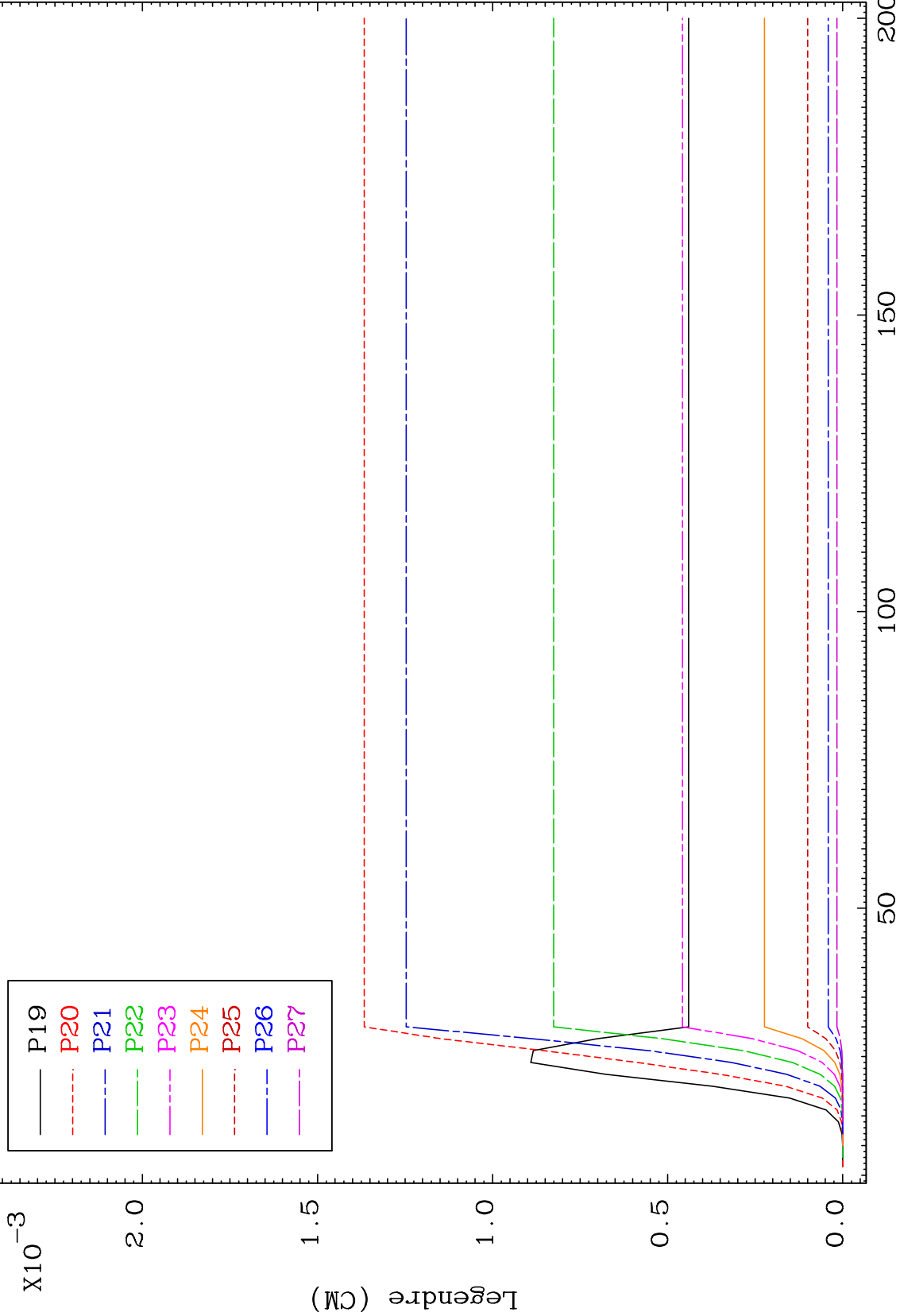
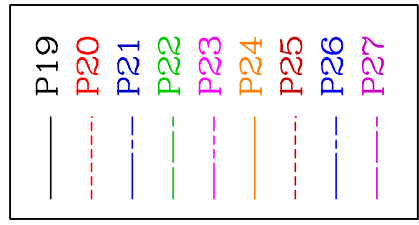
Incident Energy (MeV)

61-Pm-156

MAT 6176

MT= 69 (n,n') Level
Legendre Coefficients

61-Pm-156



82

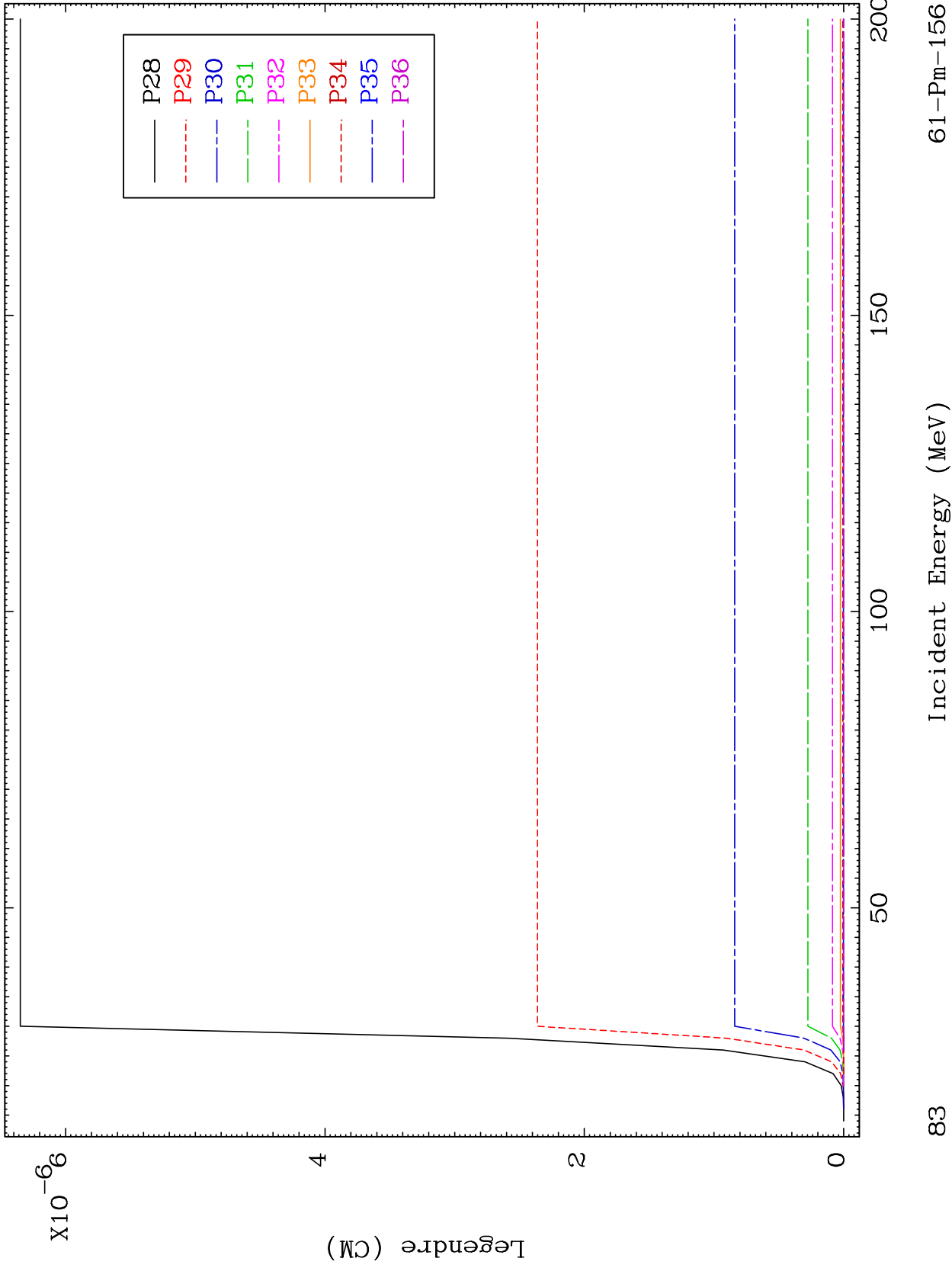
Incident Energy (MeV)

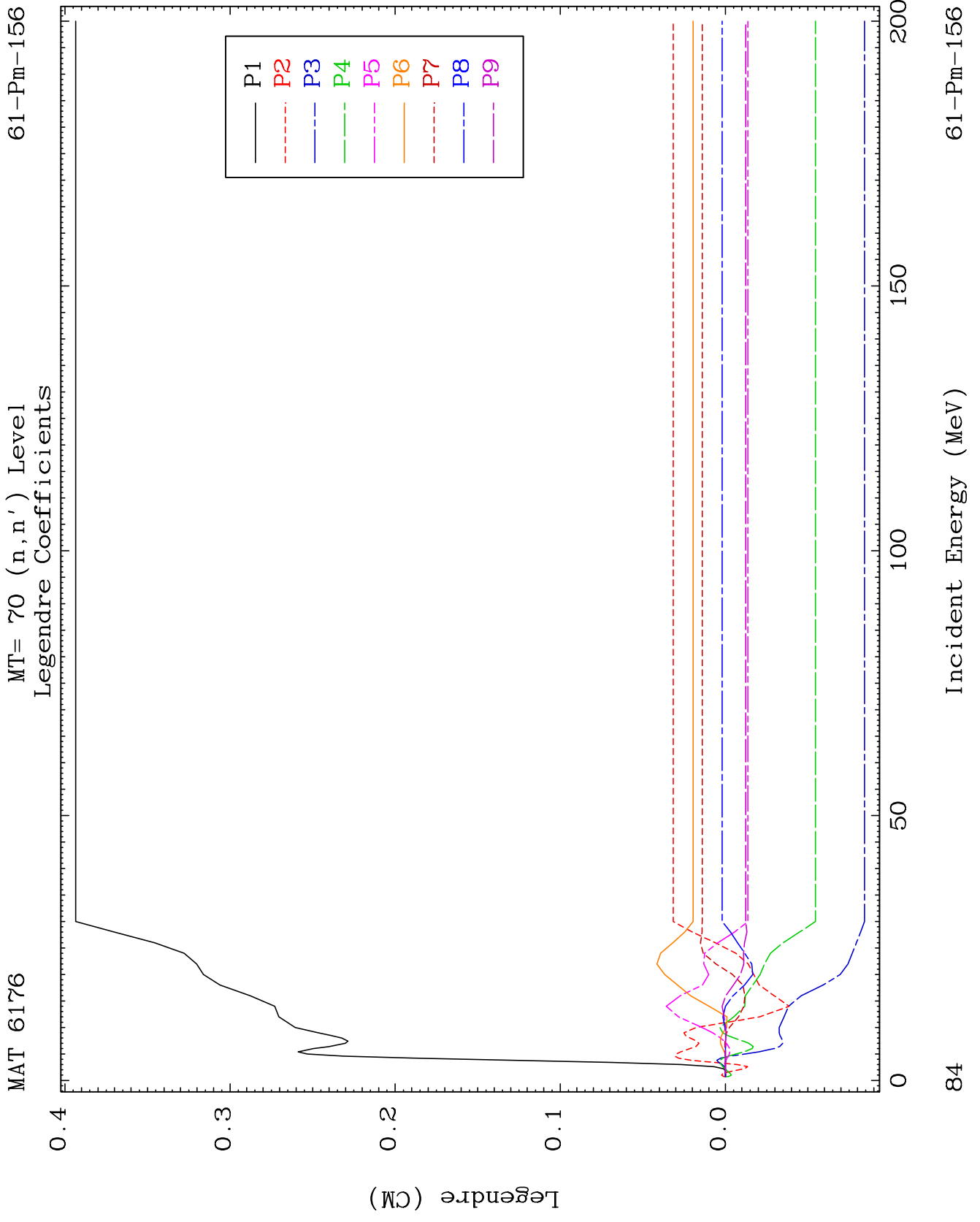
61-Pm-156

MAT 6176

MT= 69 (n,n') Level
Legendre Coefficients

61-Pm-156

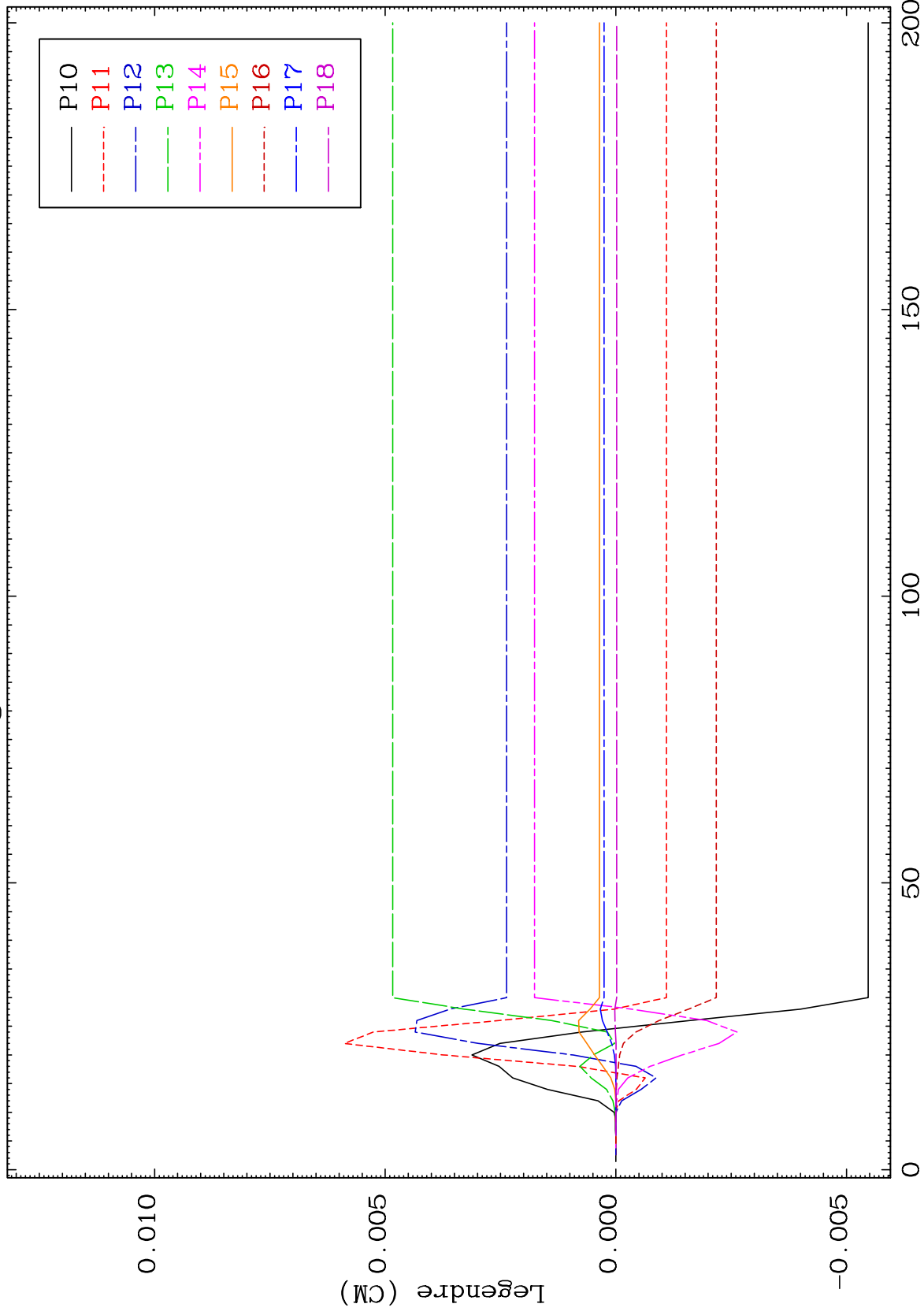




MAT 6176

MT= 70 (n,n') Level
Legendre Coefficients

61-Pm-156



85

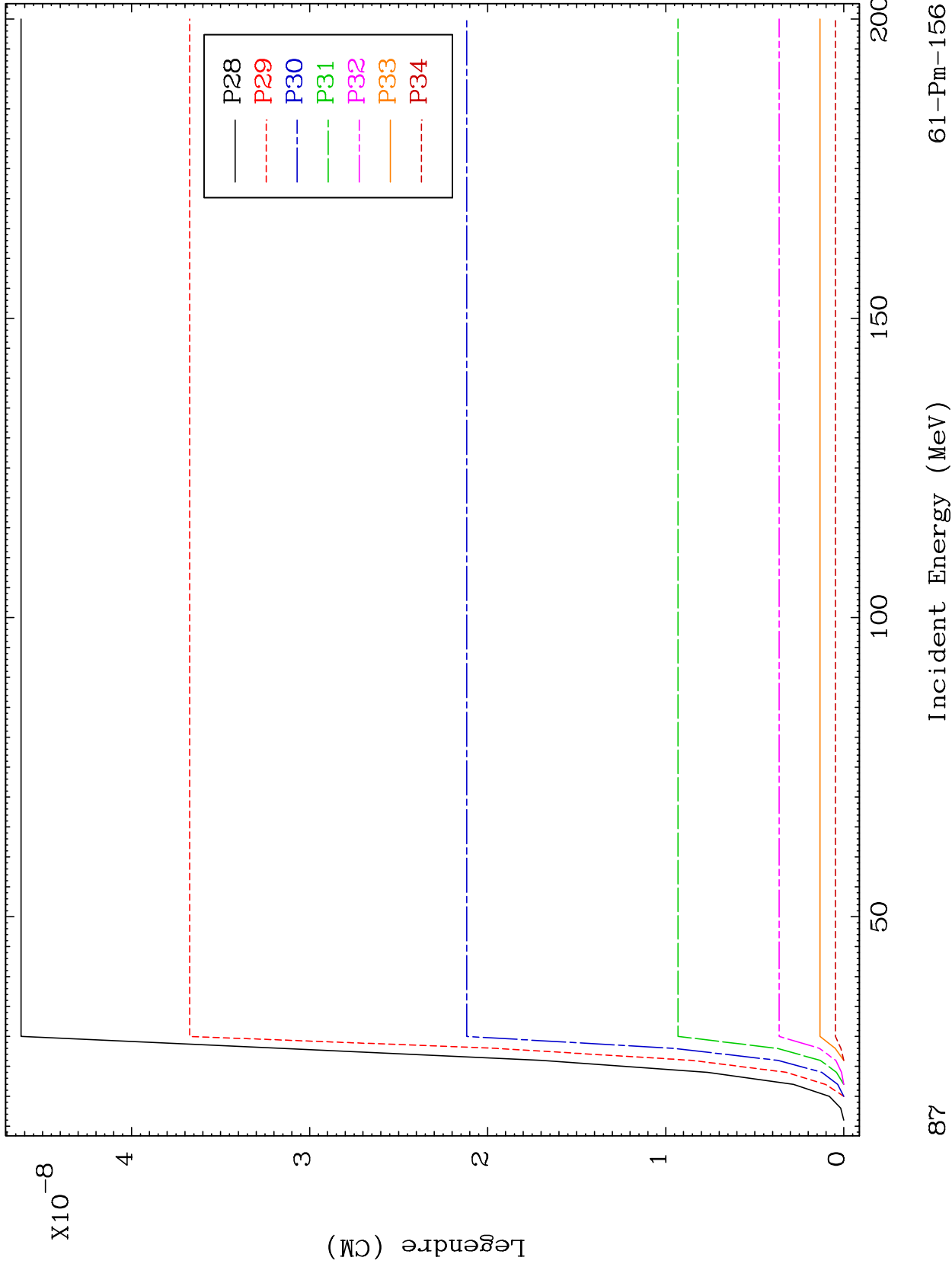
Incident Energy (MeV)

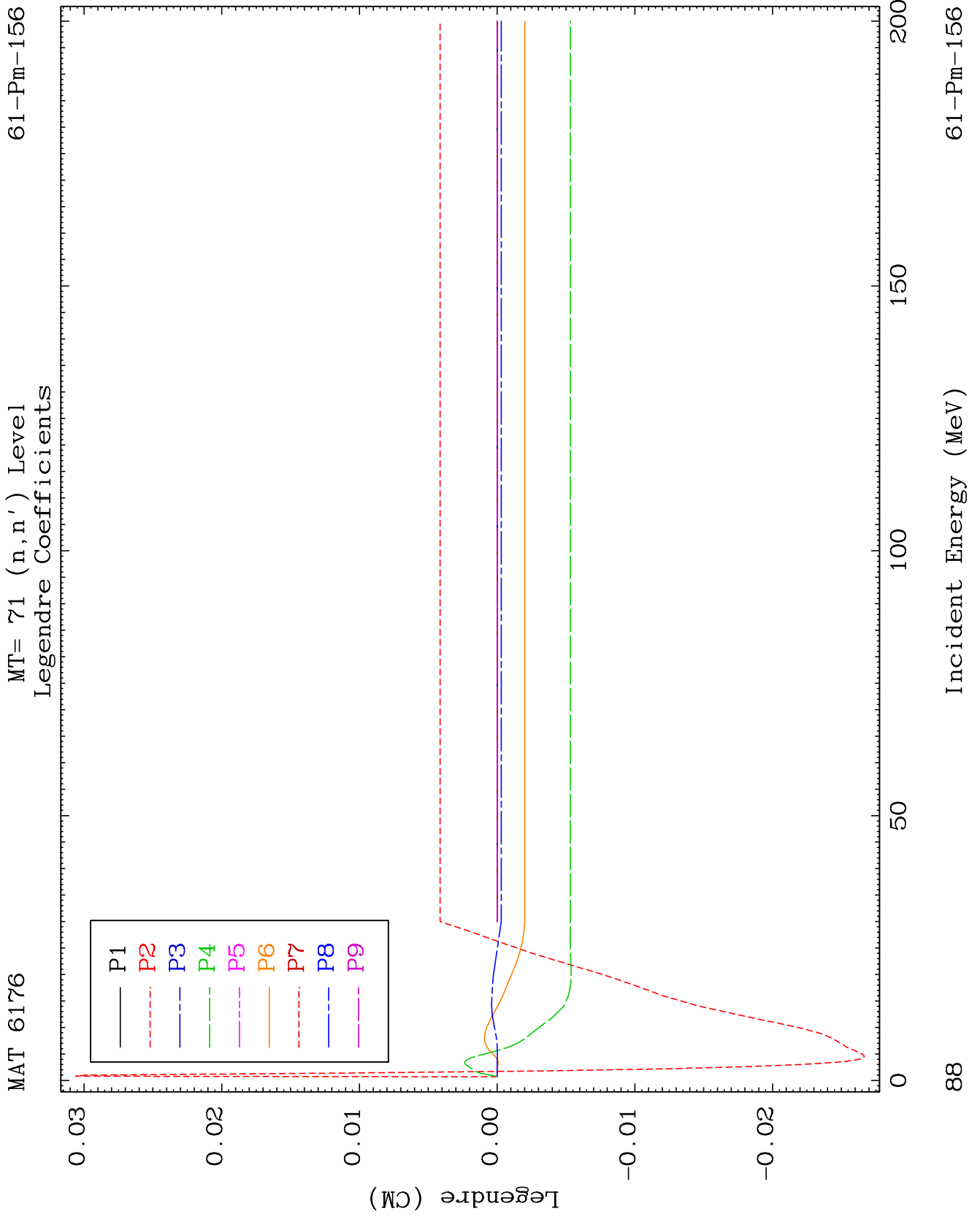
61-Pm-156

MAT 6176

MT= 70 (n,n') Level
Legendre Coefficients

61-Pm-156

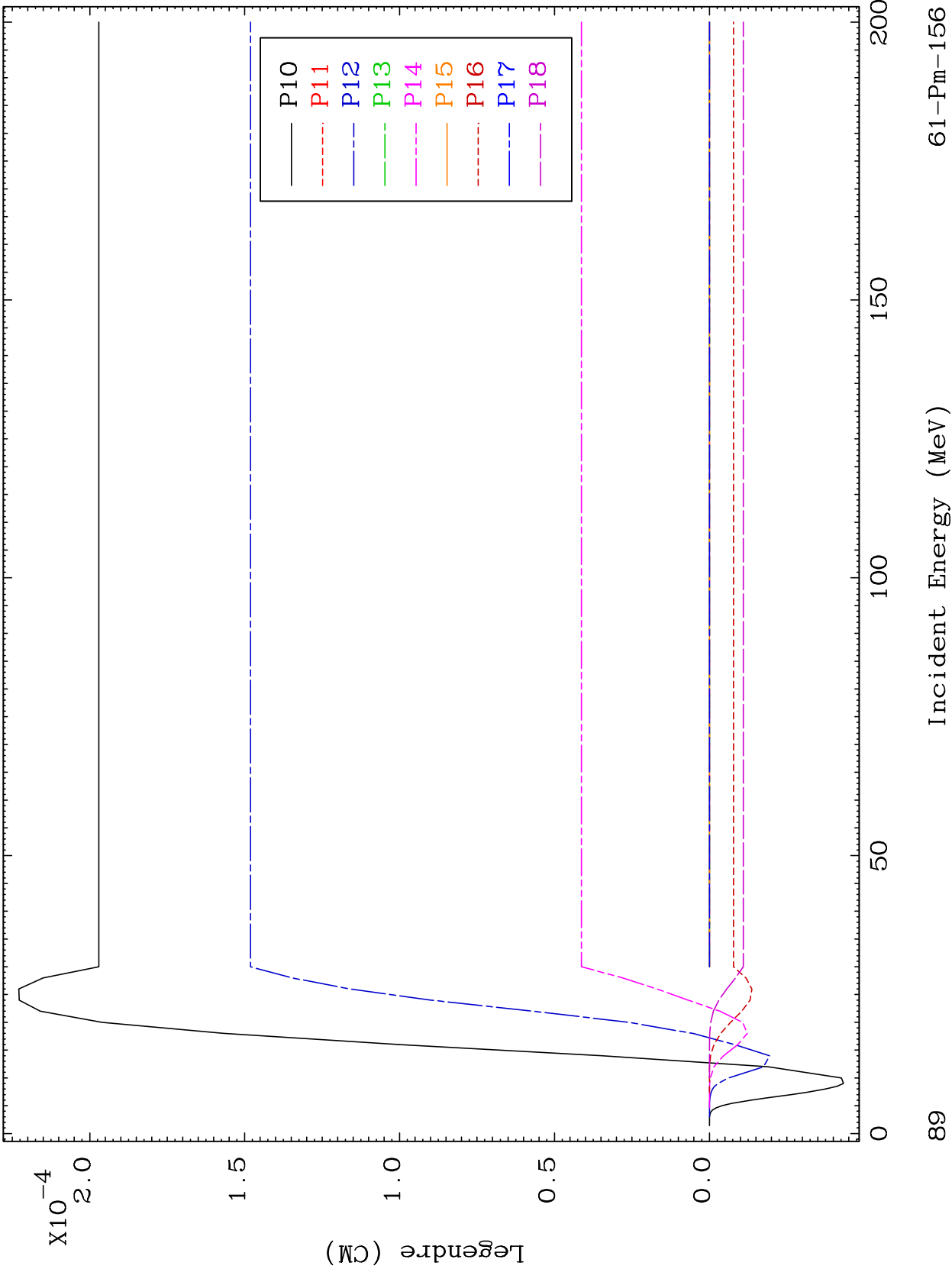


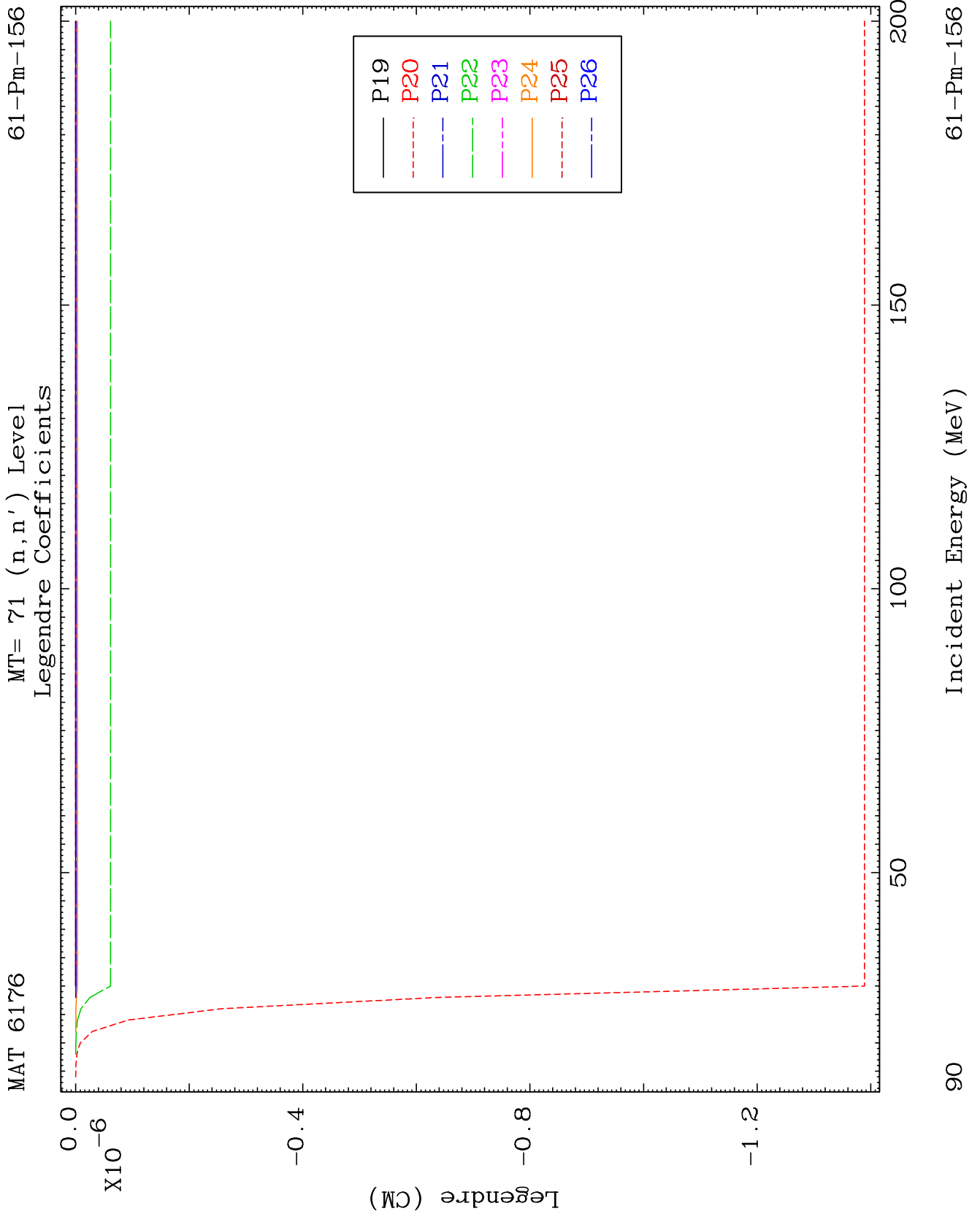


61-Pm-156

Incident Energy (MeV)

88

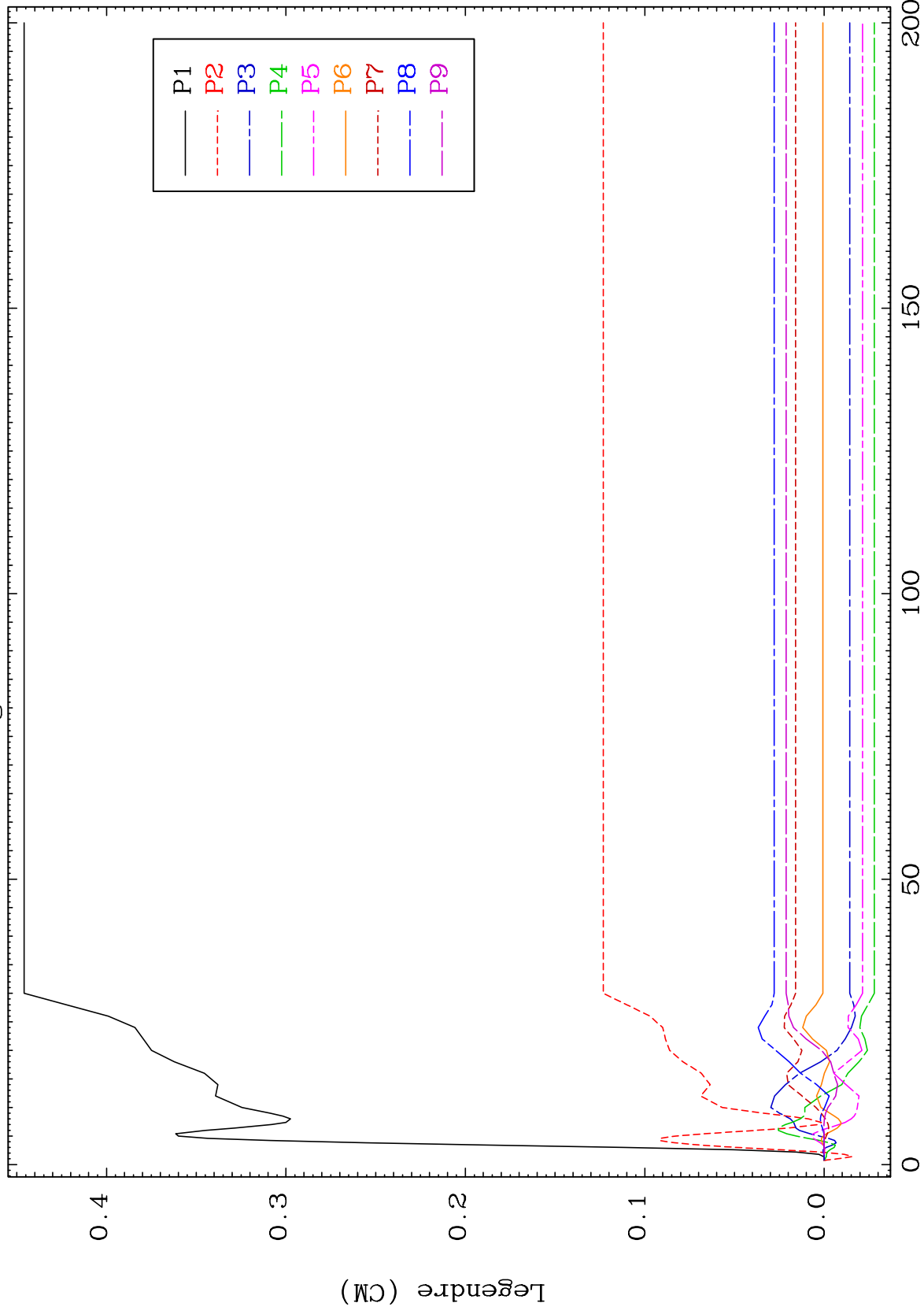




MAT 6176

MT= 72 (n,n') Level
Legendre Coefficients

61-Pm-156



91

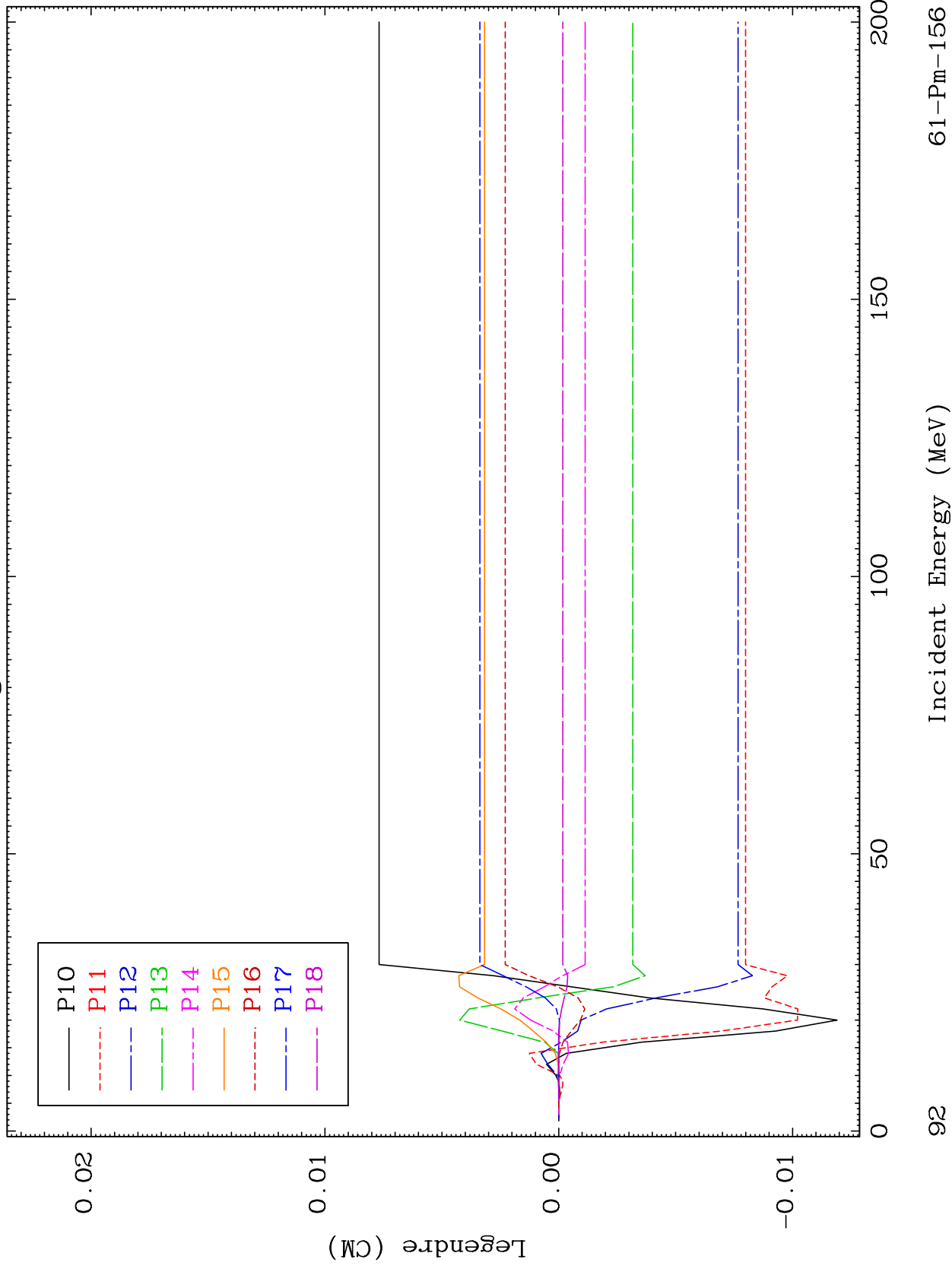
Incident Energy (MeV)

61-Pm-156

MAT 6176

MT= 72 (n,n') Level
Legendre Coefficients

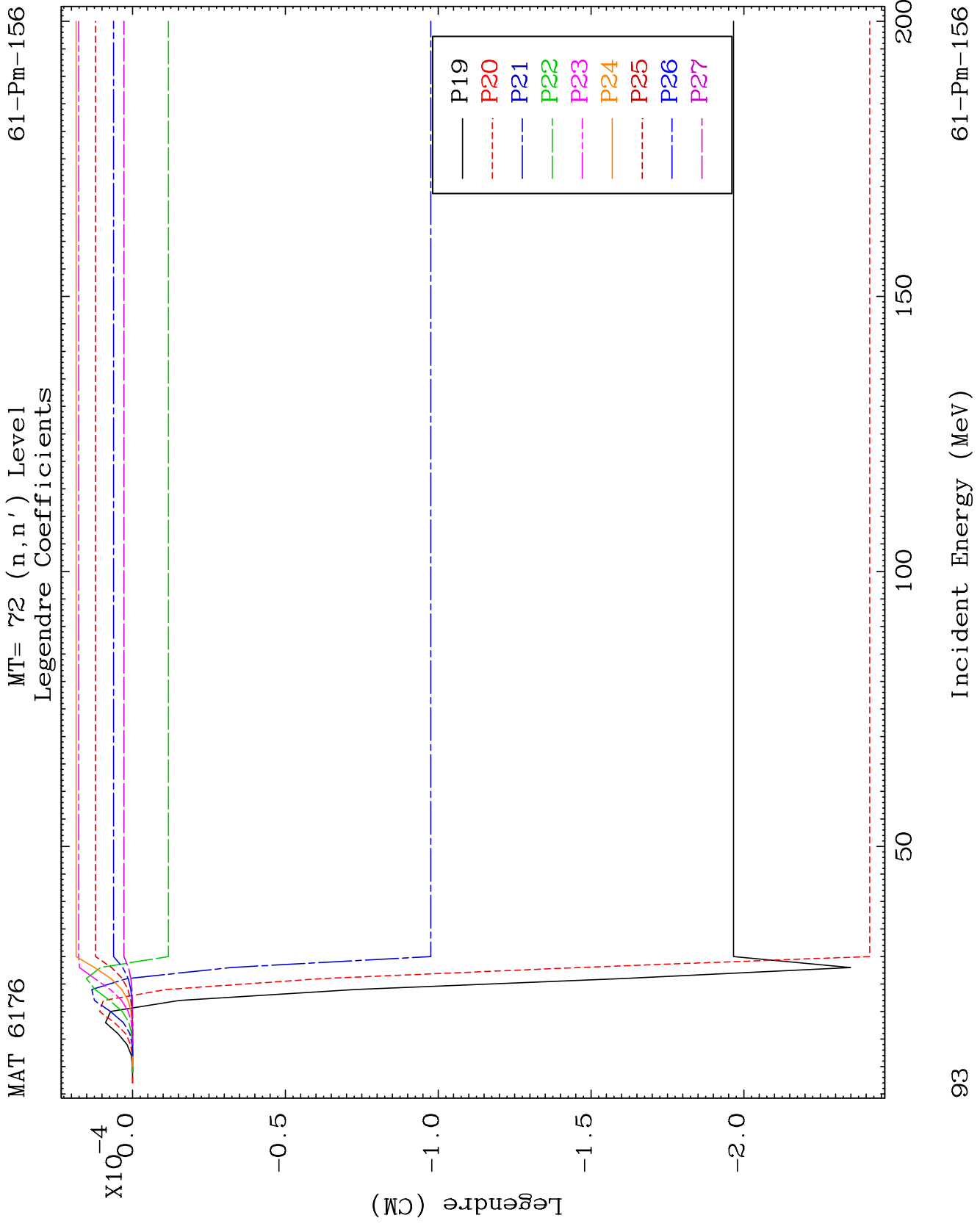
61-Pm-156



61-Pm-156

Incident Energy (MeV)

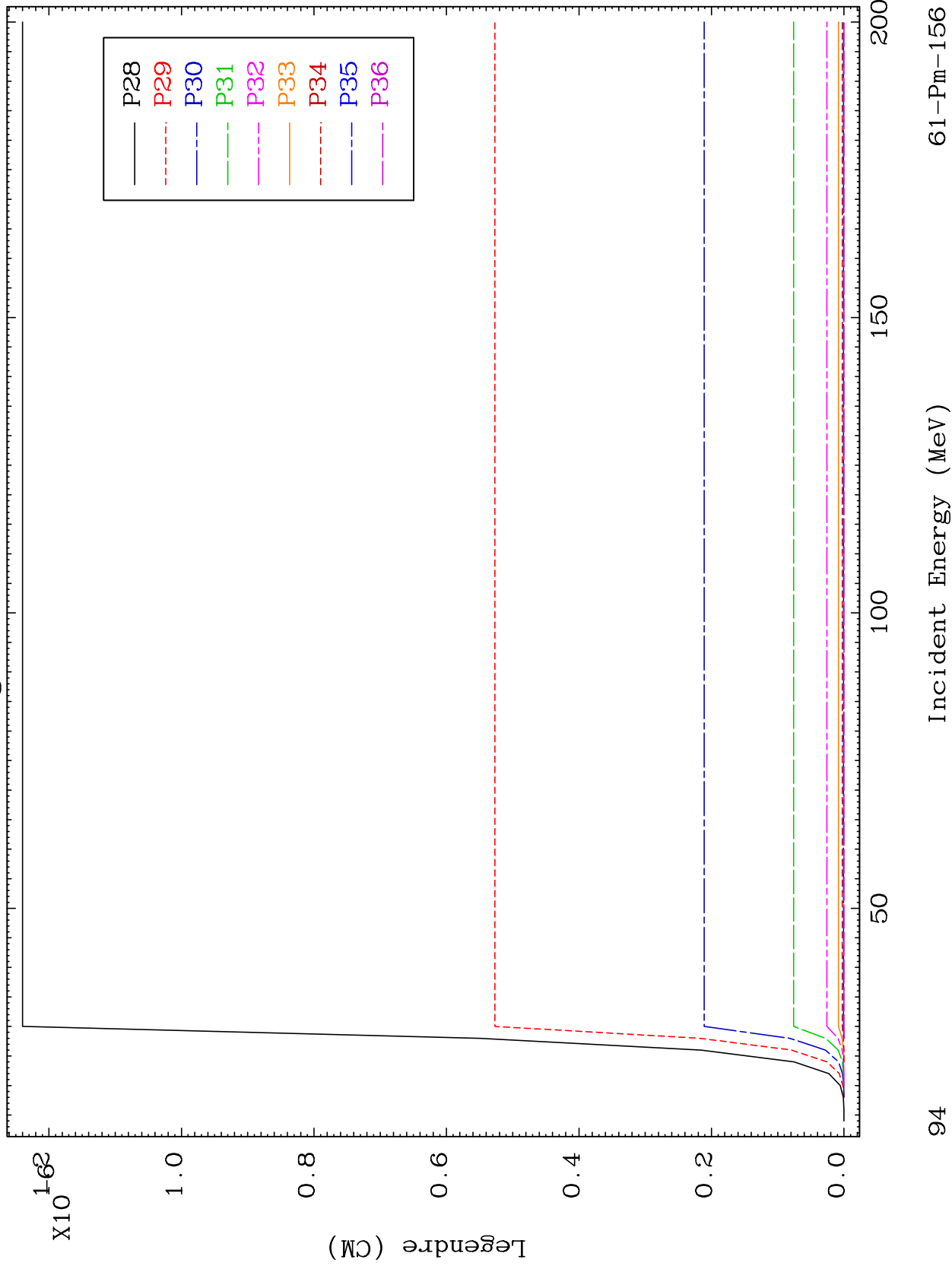
92



MAT 6176

MT= 72 (n,n') Level
Legendre Coefficients

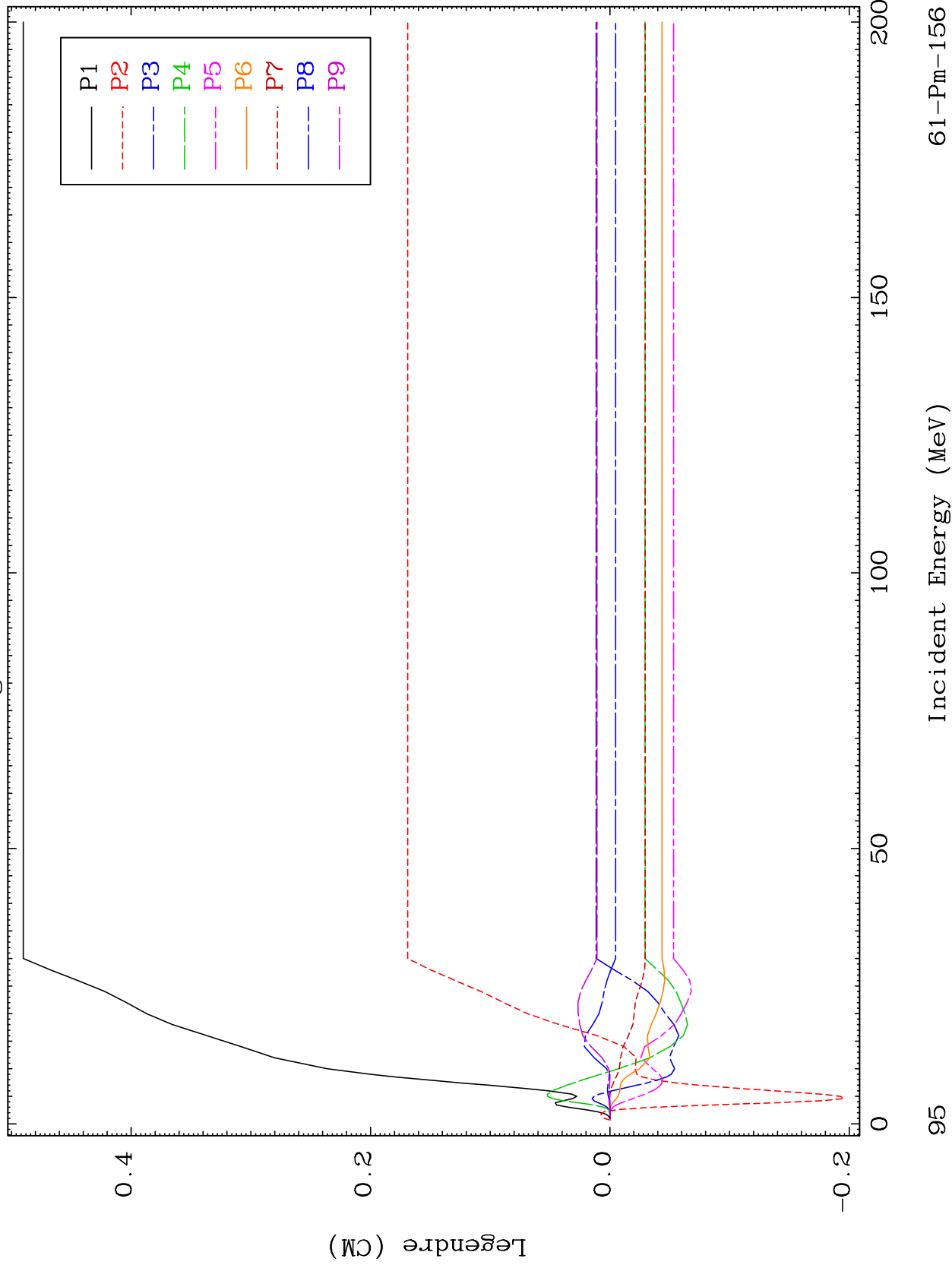
61-Pm-156



MAT 6176

MT= 73 (n,n') Level
Legendre Coefficients

61-Pm-156



61-Pm-156

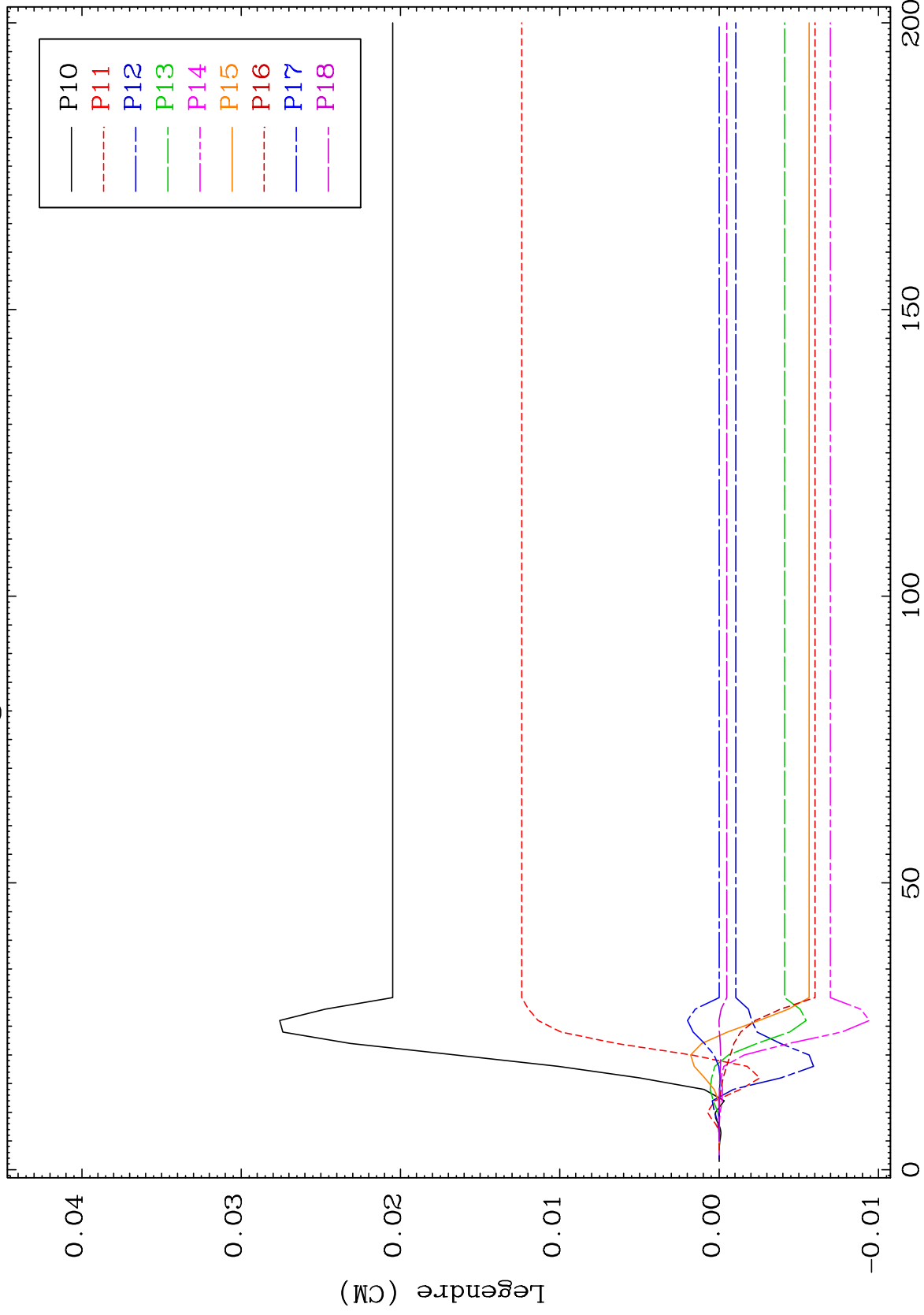
Incident Energy (MeV)

95

MAT 6176

MT= 73 (n,n') Level
Legendre Coefficients

61-Pm-156



96

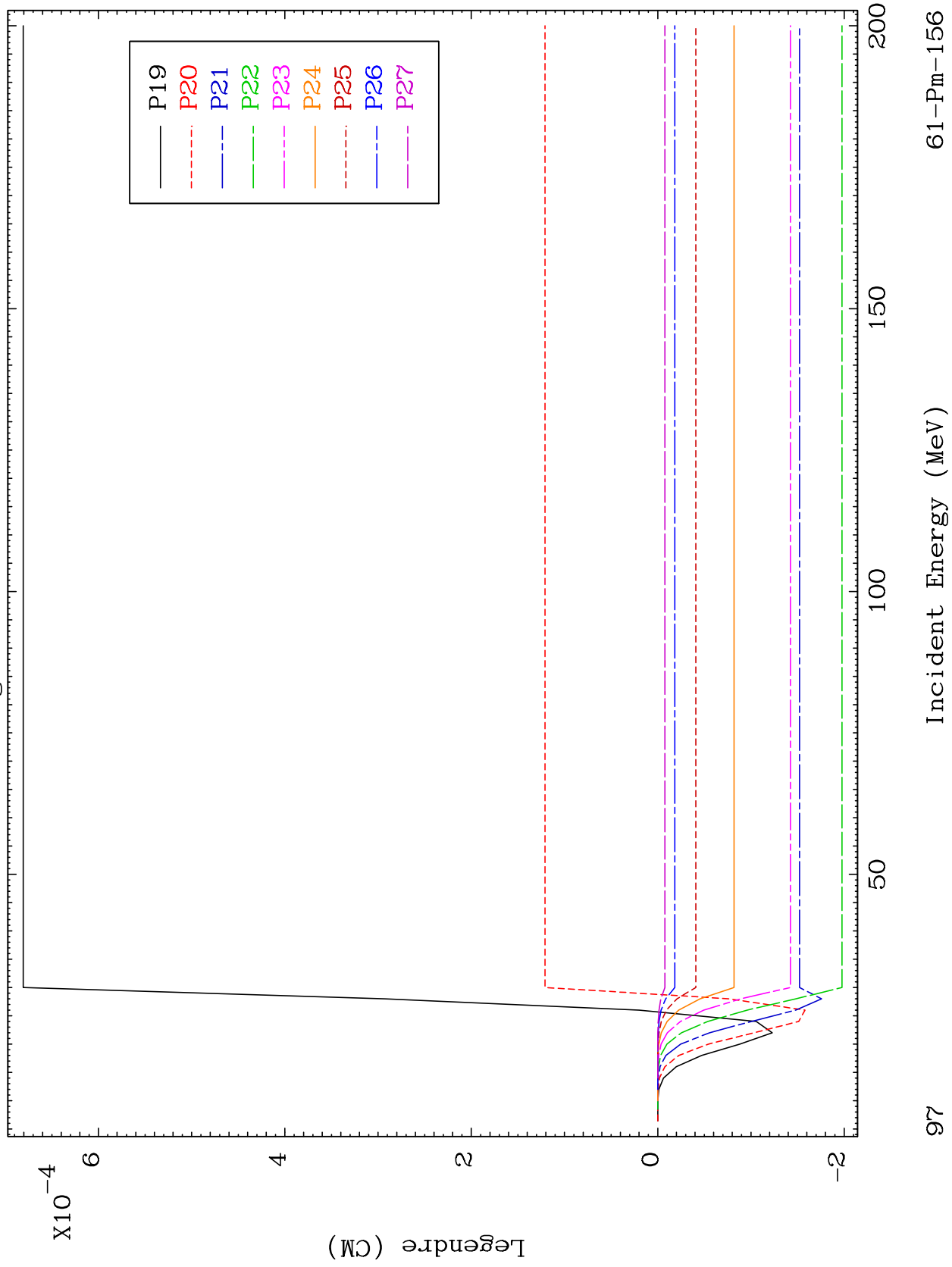
Incident Energy (MeV)

61-Pm-156

MAT 6176

MT= 73 (n,n') Level
Legendre Coefficients

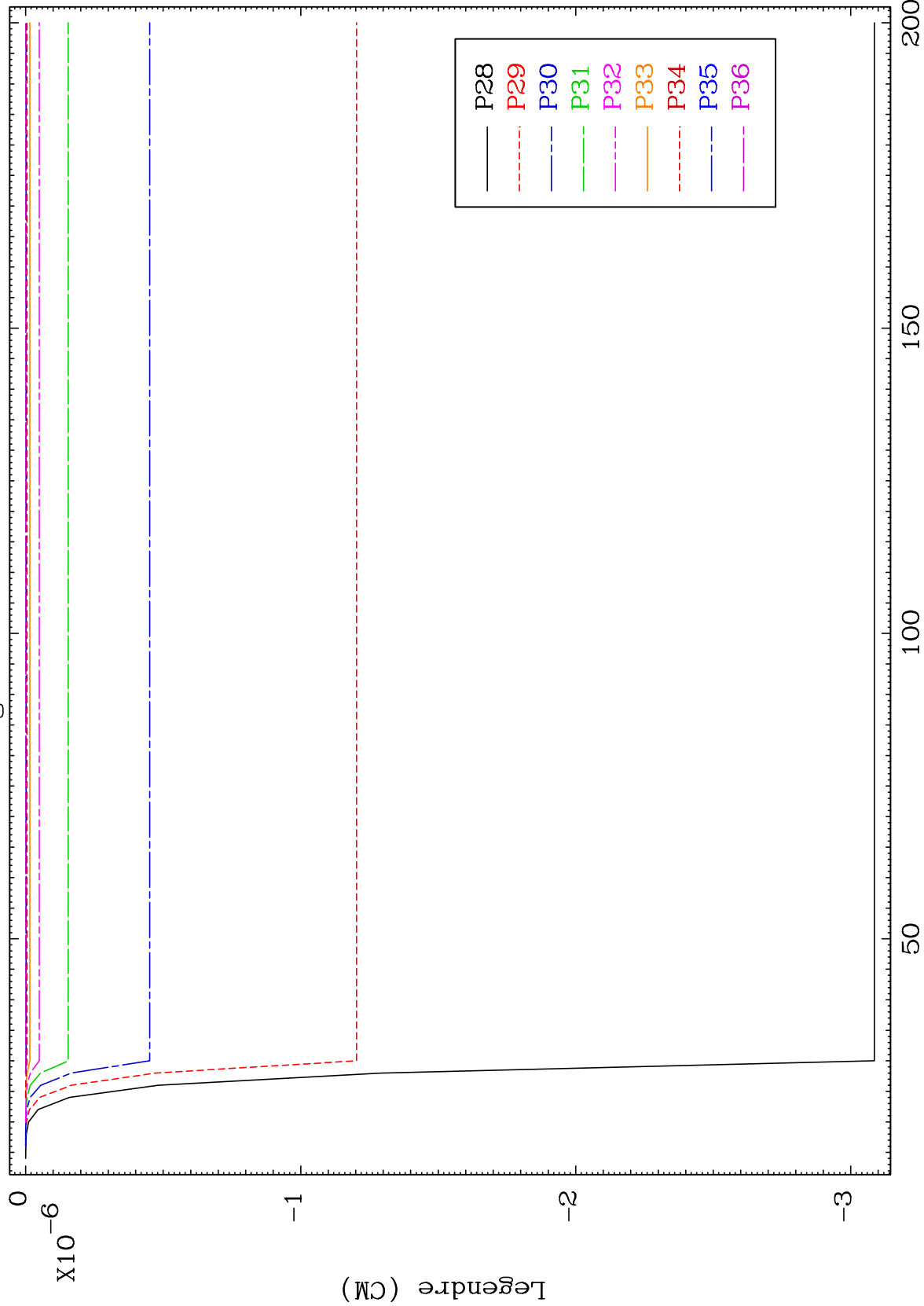
61-Pm-156



MAT 6176

MT= 73 (n,n') Level
Legendre Coefficients

61-Pm-156



61-Pm-156

Incident Energy (MeV)

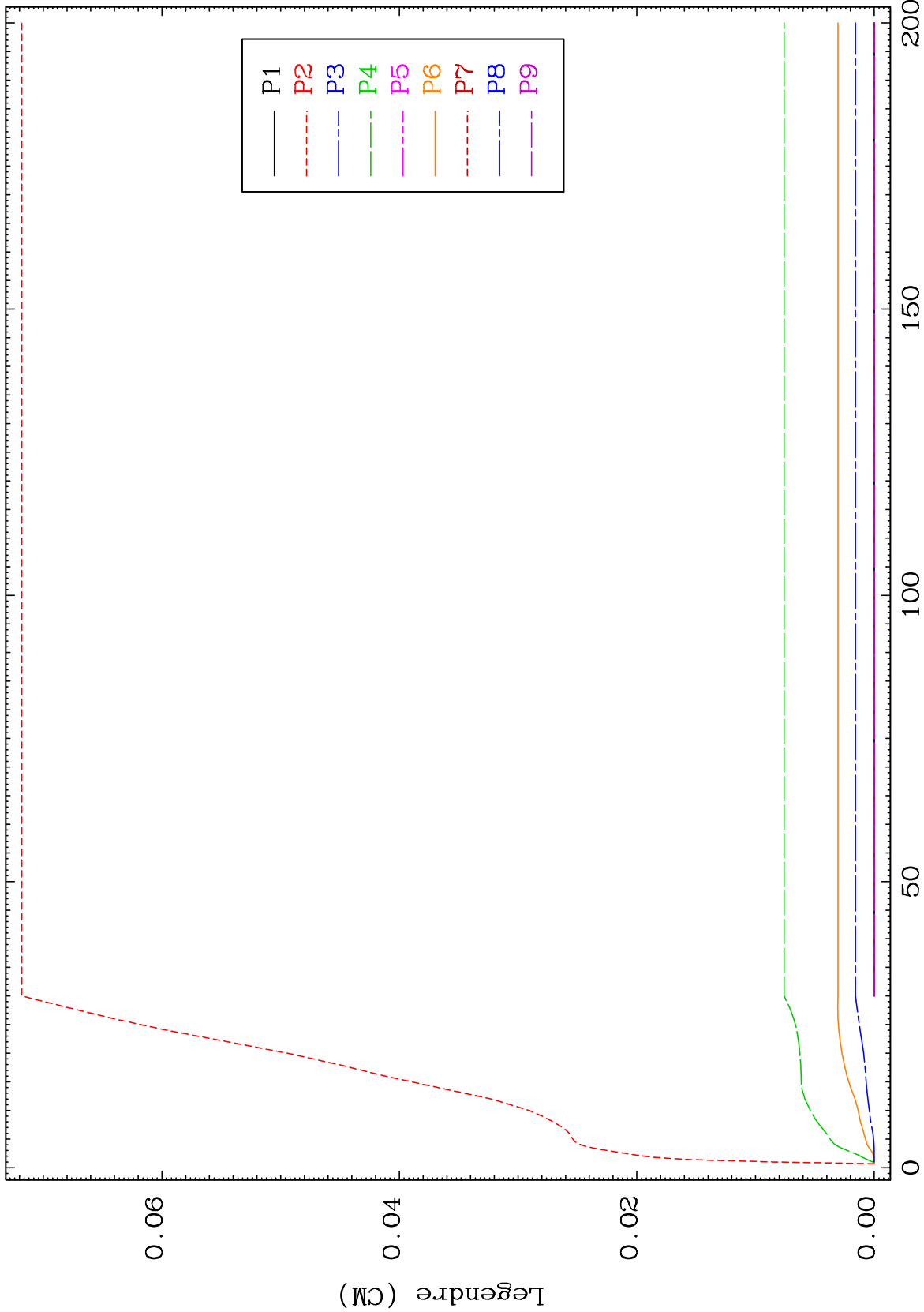
98

MAT 6176

MT= 74 (n,n') Level

61-Pm-156

Legendre Coefficients



99

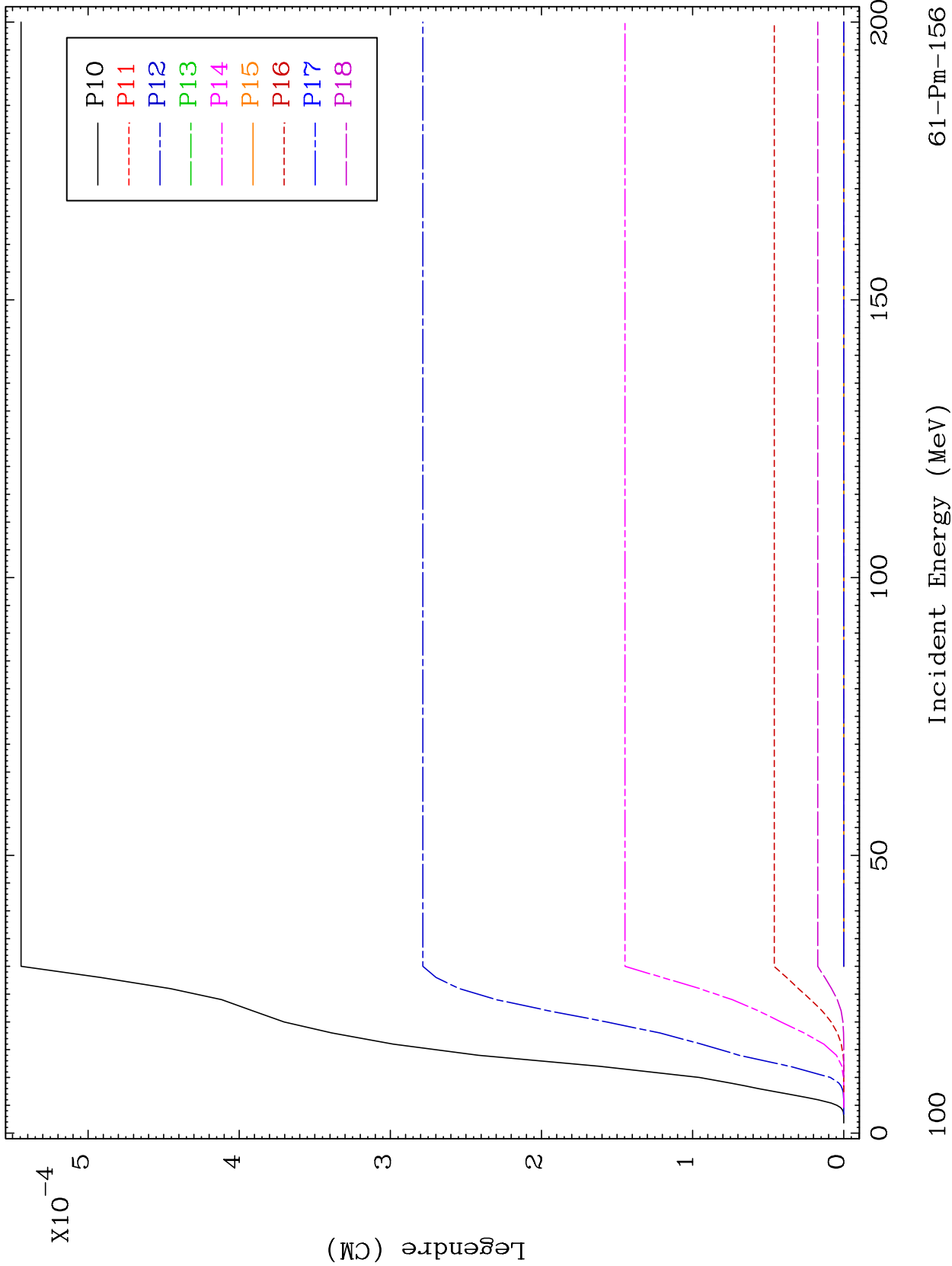
Incident Energy (MeV)

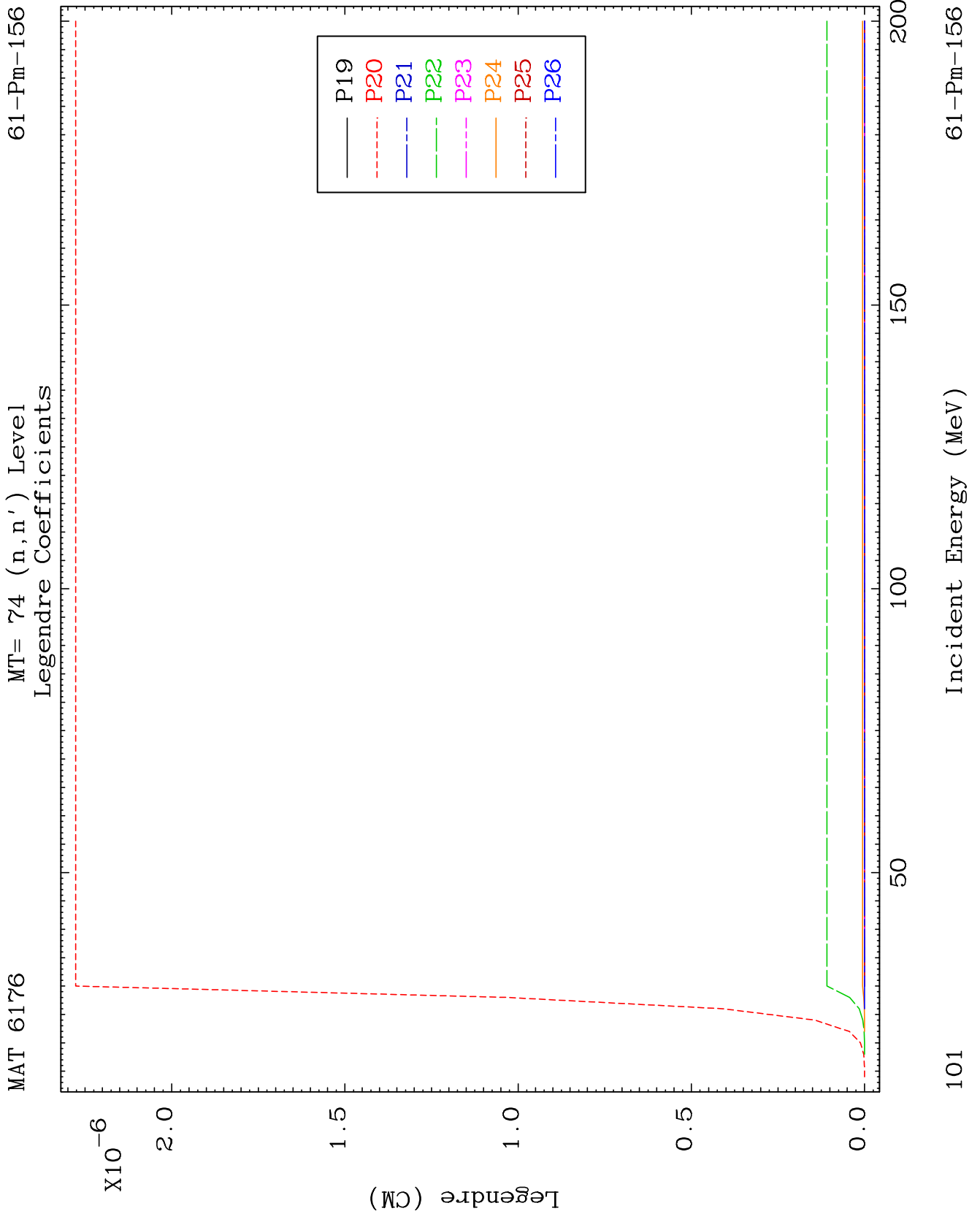
61-Pm-156

MAT 6176

MT= 74 (n,n') Level
Legendre Coefficients

61-Pm-156

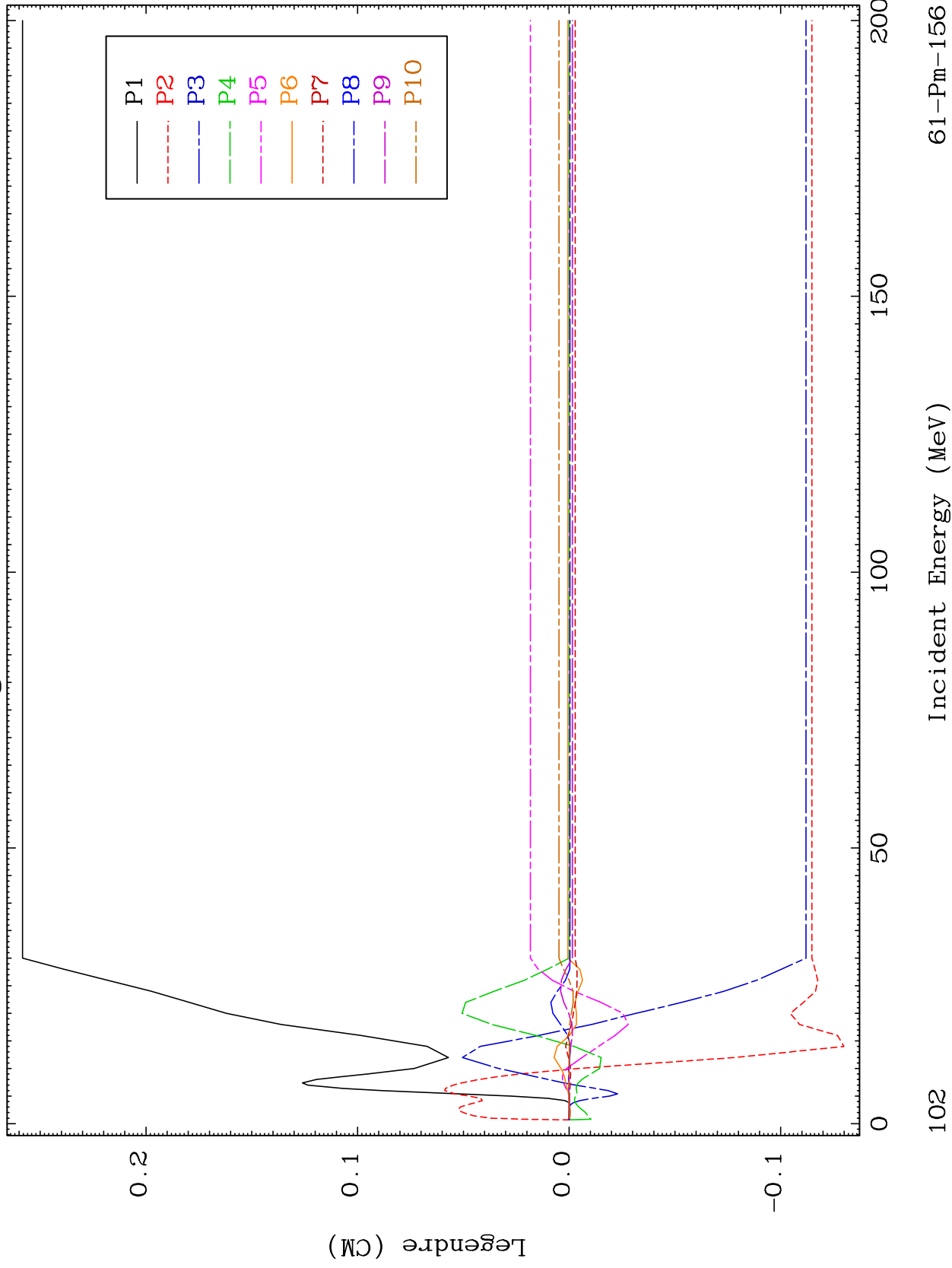




MAT 6176

MT= 75 (n,n') Level
Legendre Coefficients

61-Pm-156



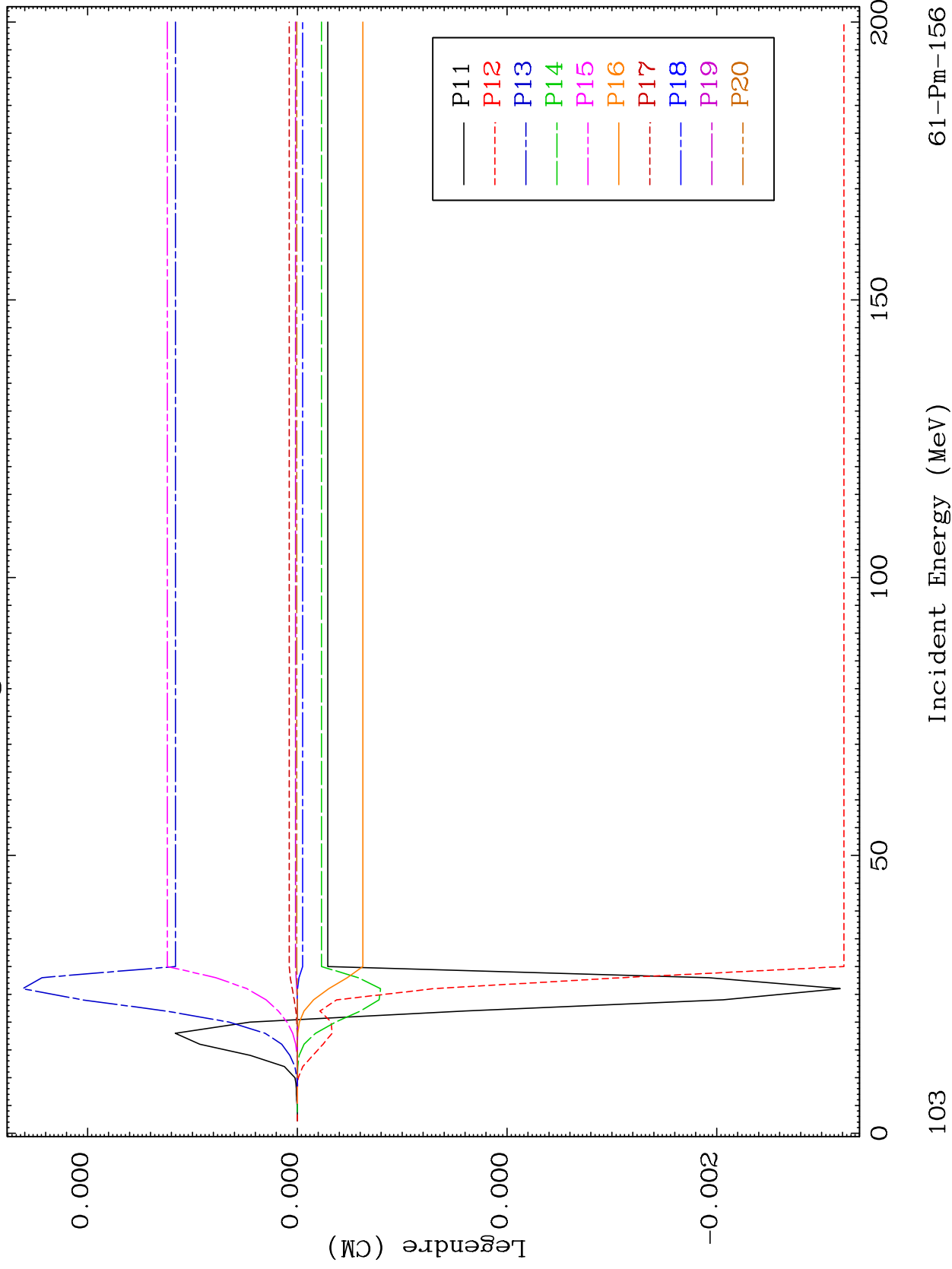
61-Pm-156

102

MAT 6176

MT= 75 (n,n') Level
Legendre Coefficients

61-Pm-156



103

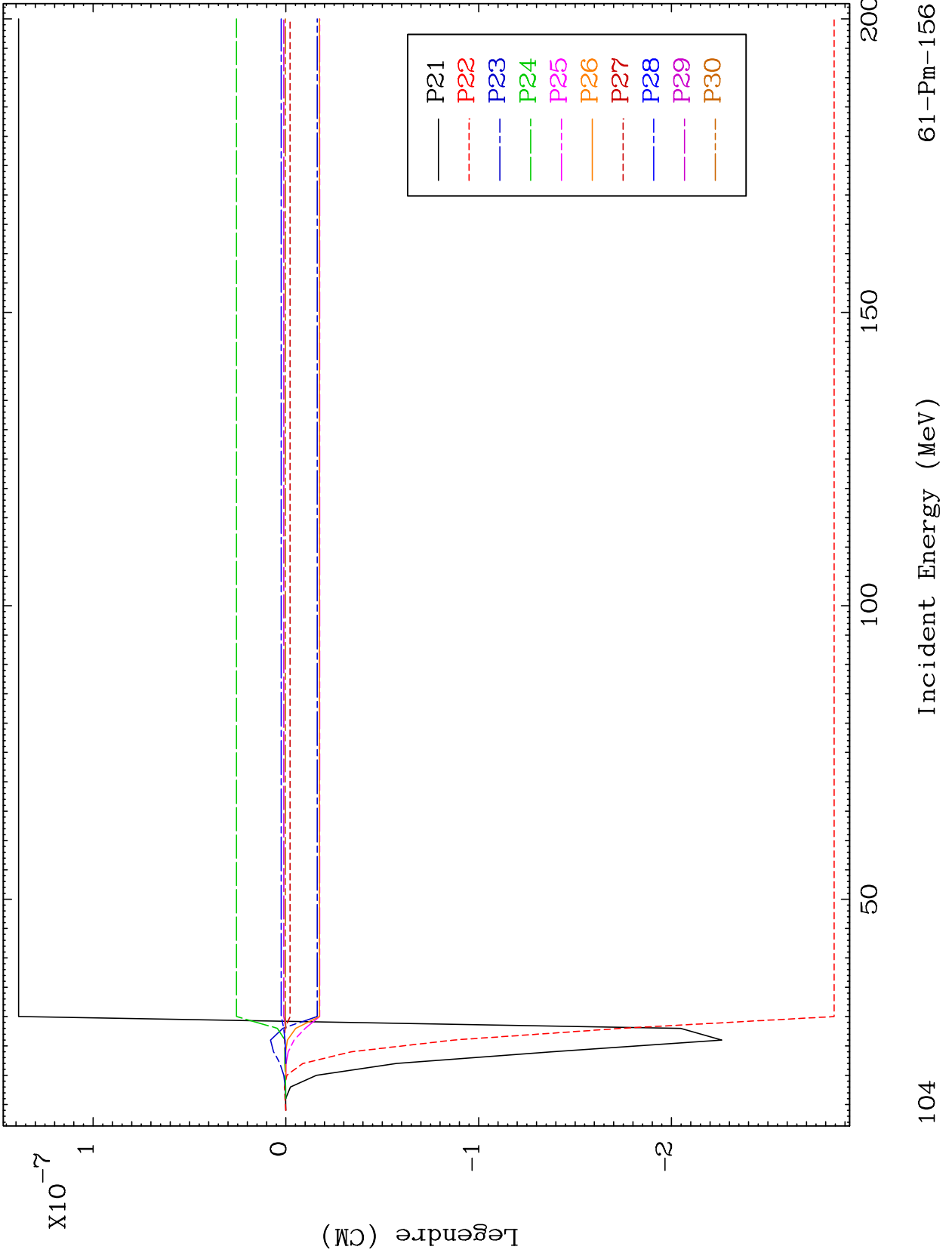
Incident Energy (MeV)

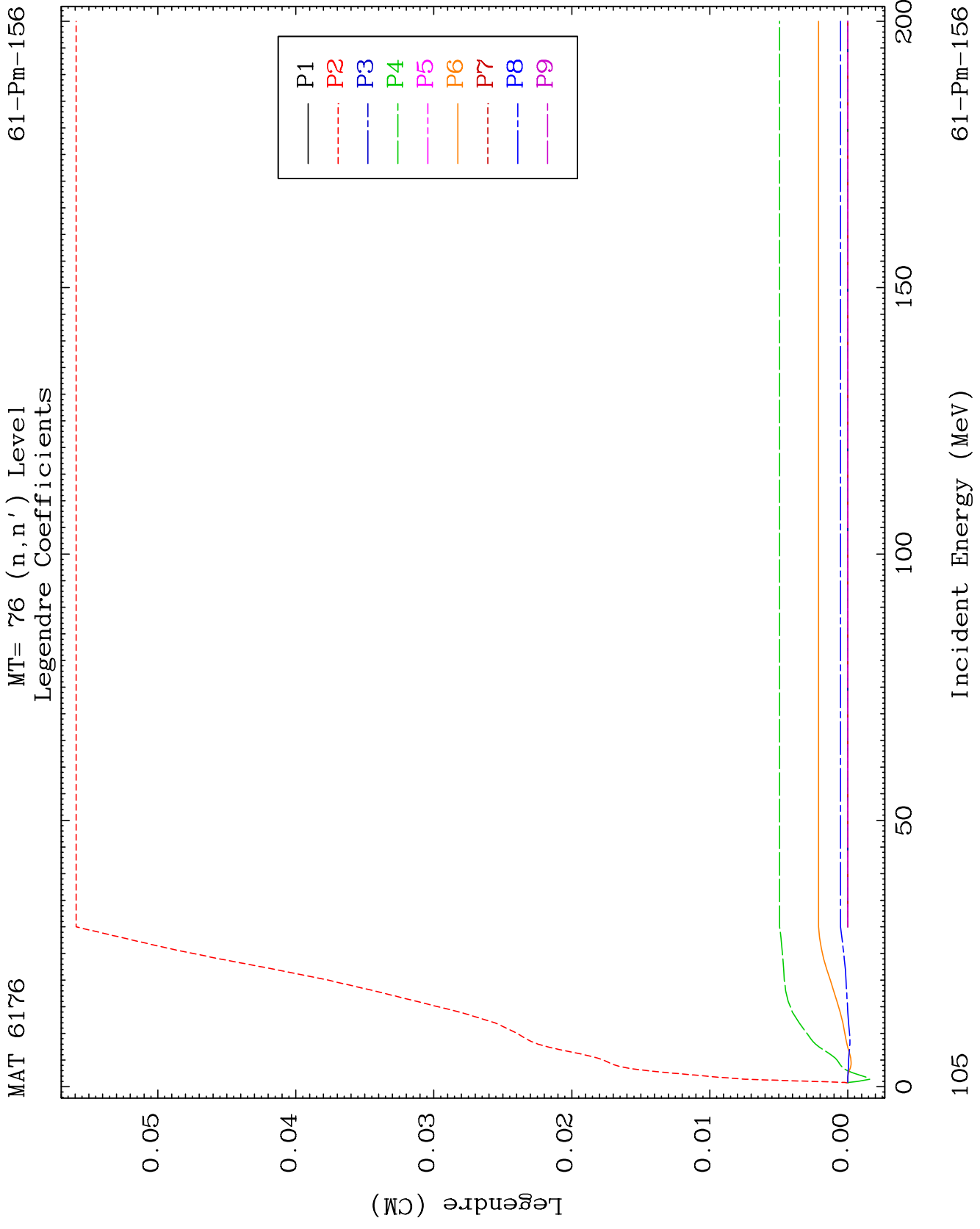
61-Pm-156

MAT 6176

MT= 75 (n,n') Level
Legendre Coefficients

61-Pm-156

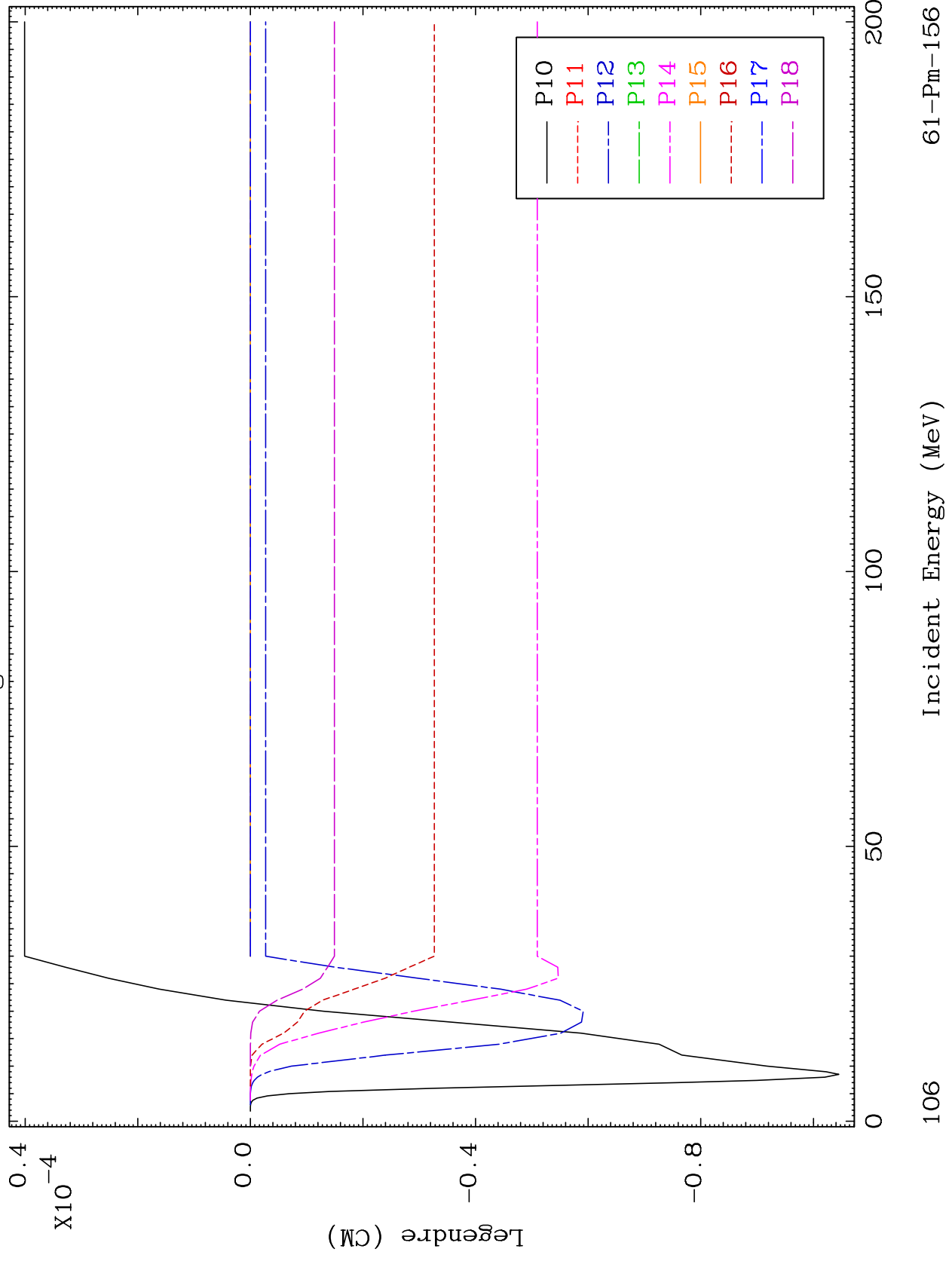


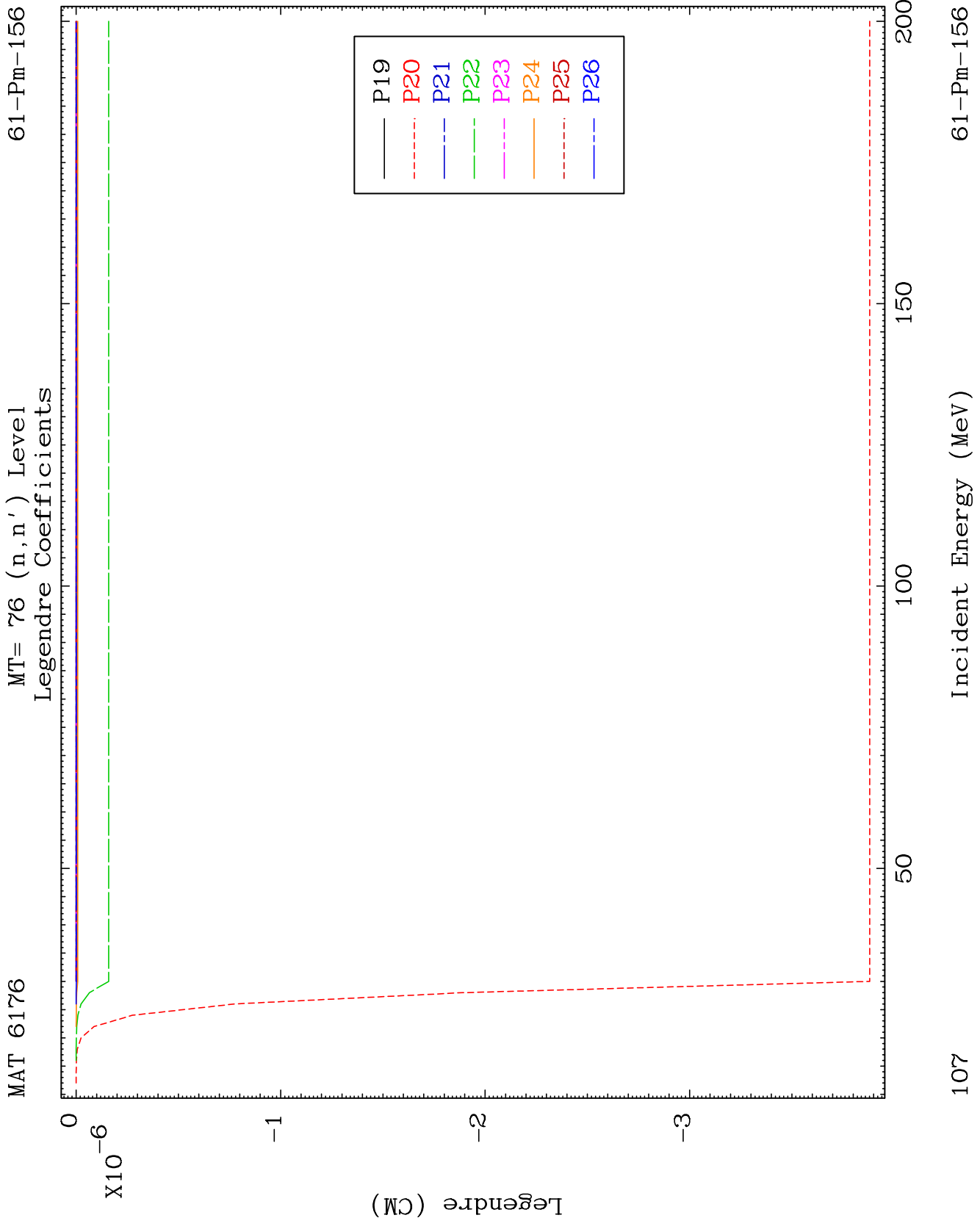


MAT 6176

MT= 76 (n,n') Level
Legendre Coefficients

61-Pm-156

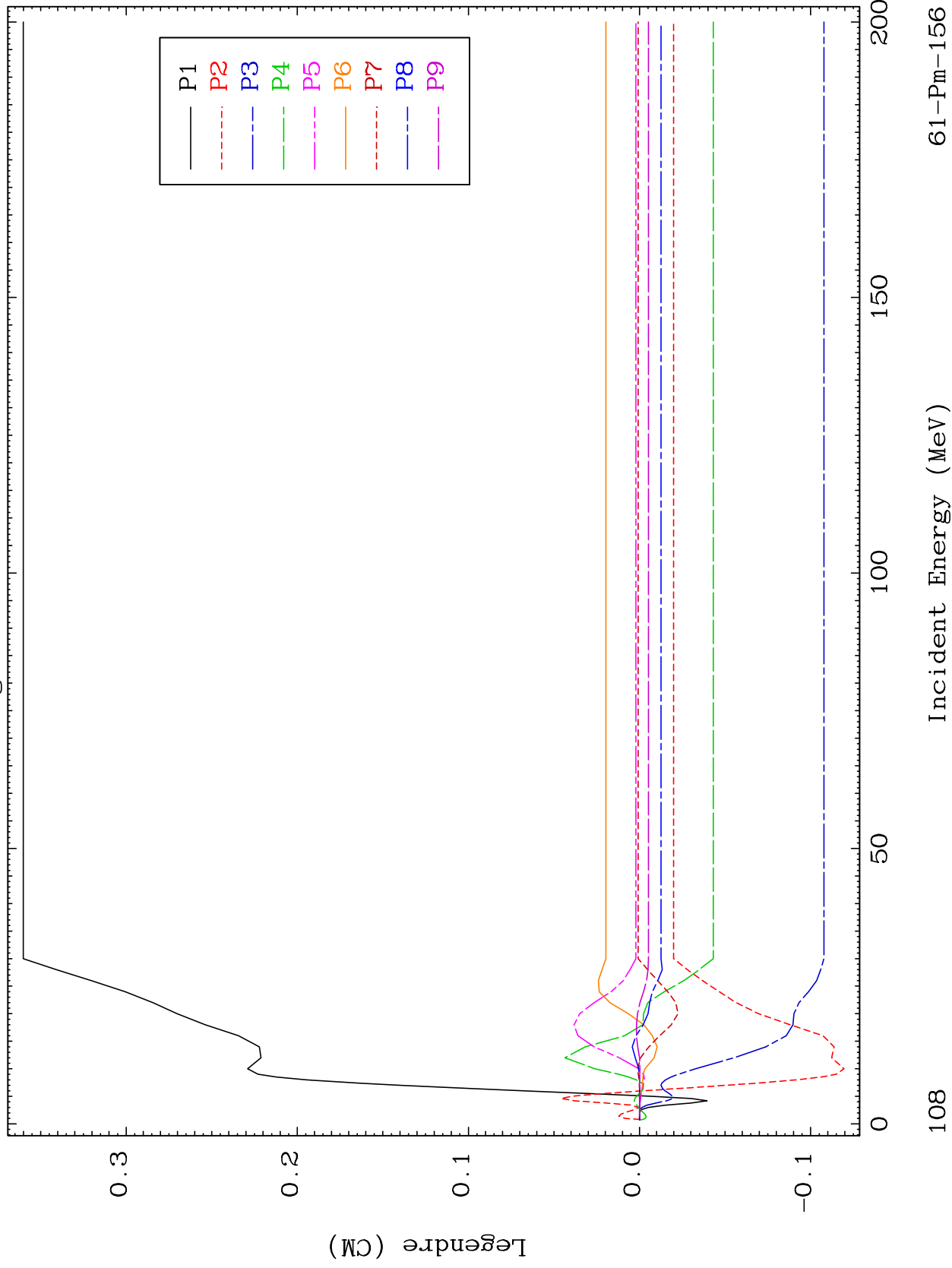




MAT 6176

MT= 77 (n,n') Level
Legendre Coefficients

61-Pm-156



61-Pm-156

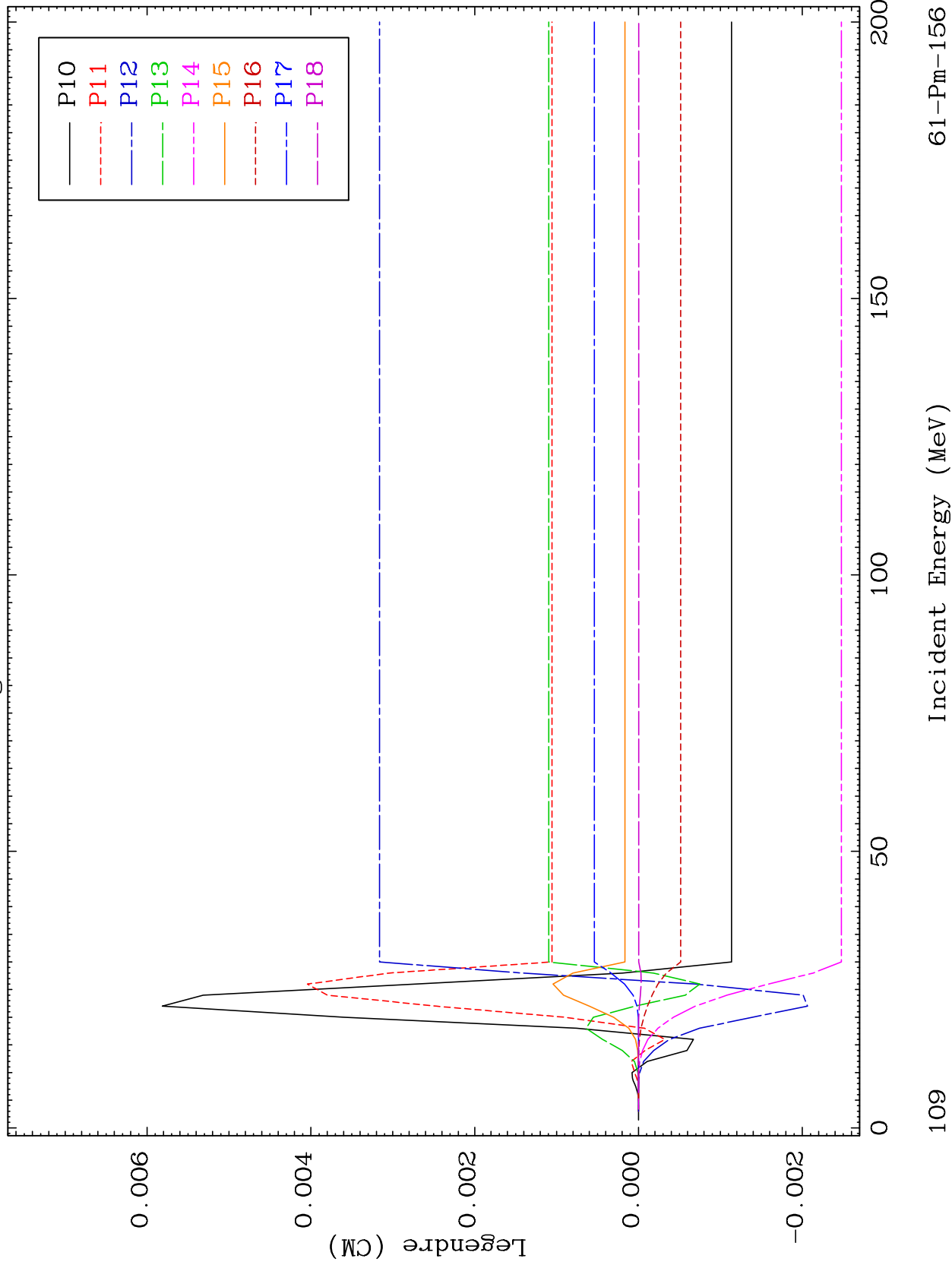
Incident Energy (MeV)

108

MAT 6176

MT= 77 (n,n') Level
Legendre Coefficients

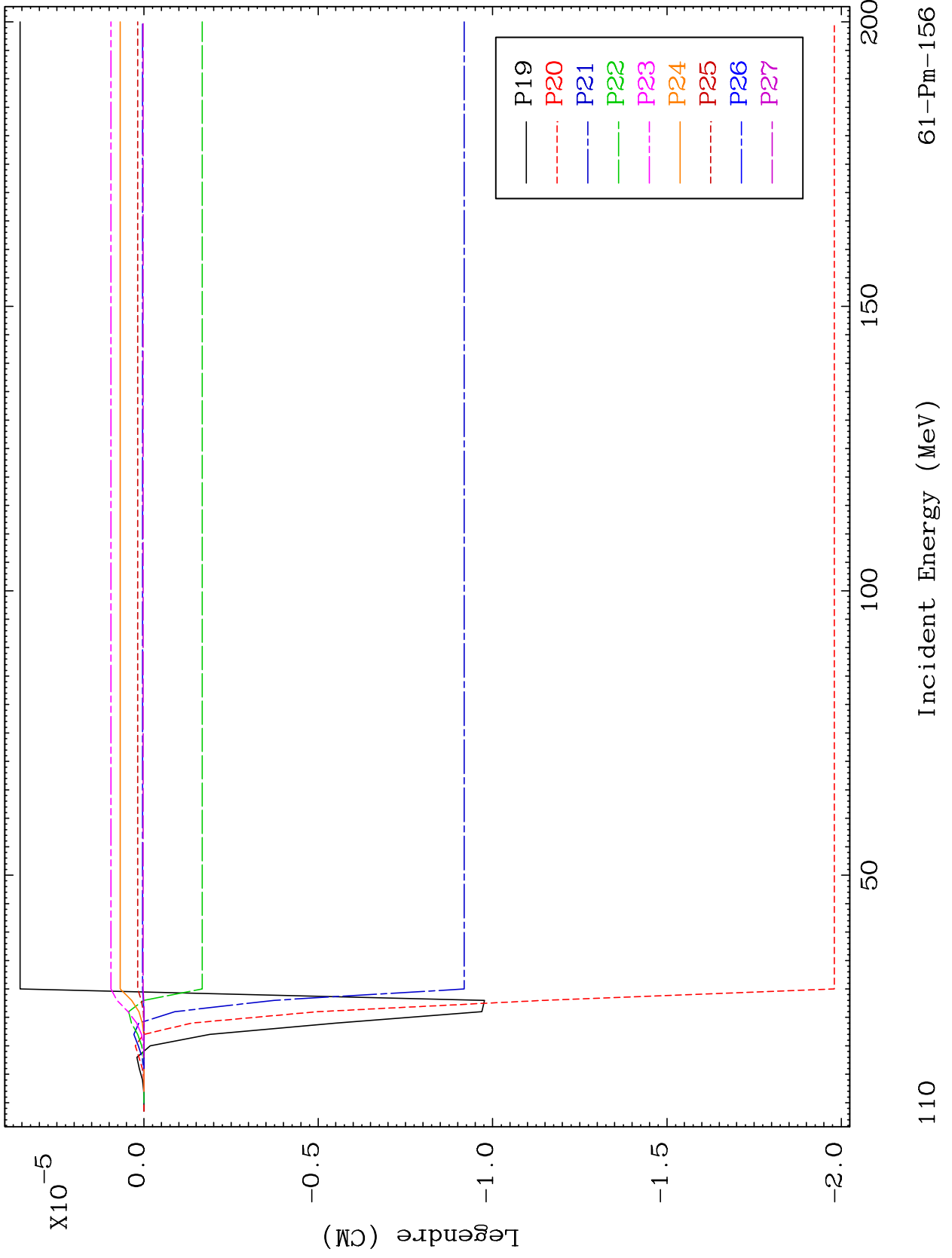
61-Pm-156



MAT 6176

MT= 77 (n,n') Level
Legendre Coefficients

61-Pm-156



110

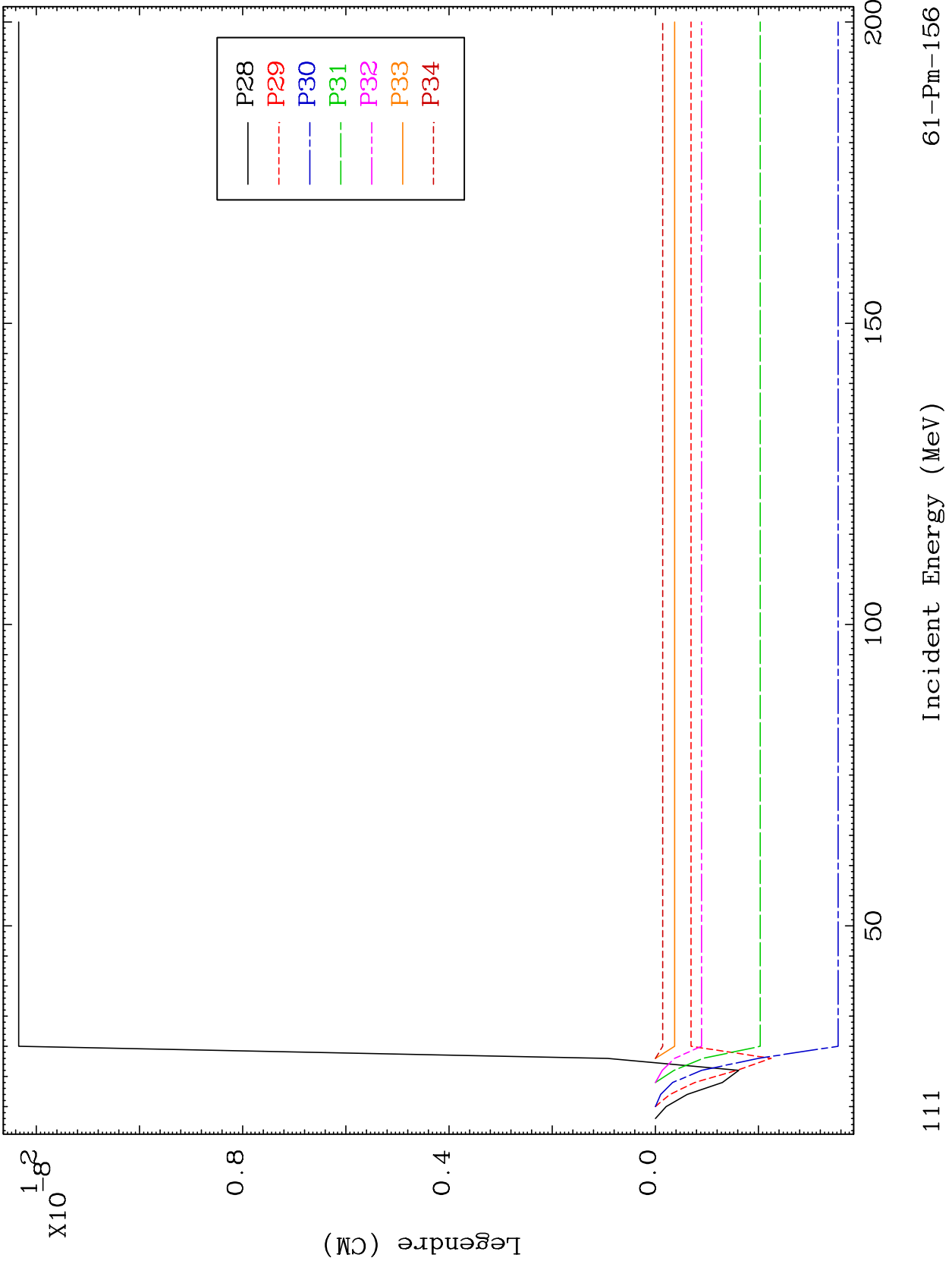
Incident Energy (MeV)

61-Pm-156

MAT 6176

MT= 77 (n,n') Level
Legendre Coefficients

61-Pm-156



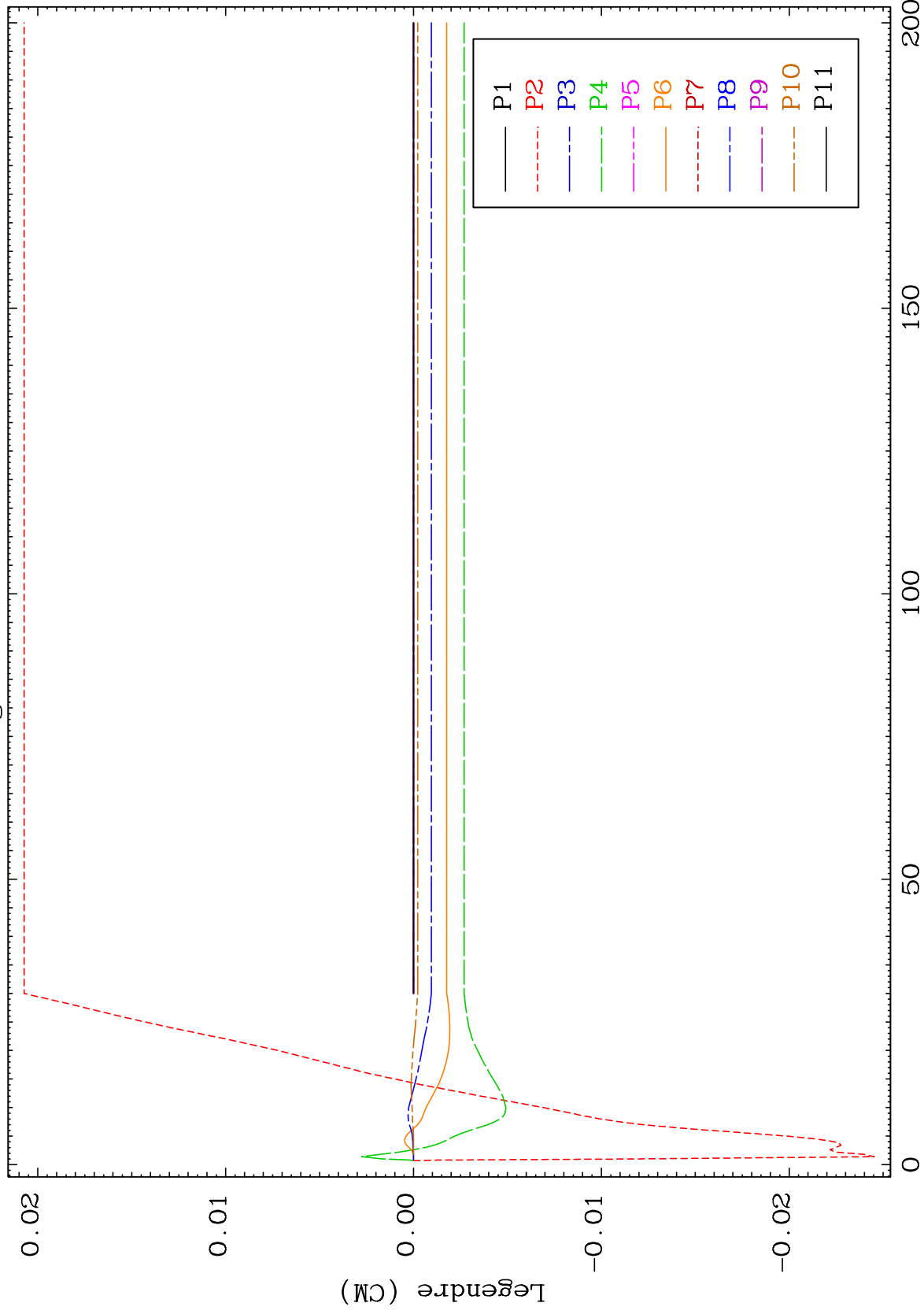
111

61-Pm-156

MAT 6176

MT= 78 (n,n') Level
Legendre Coefficients

61-Pm-156



112

Incident Energy (MeV)

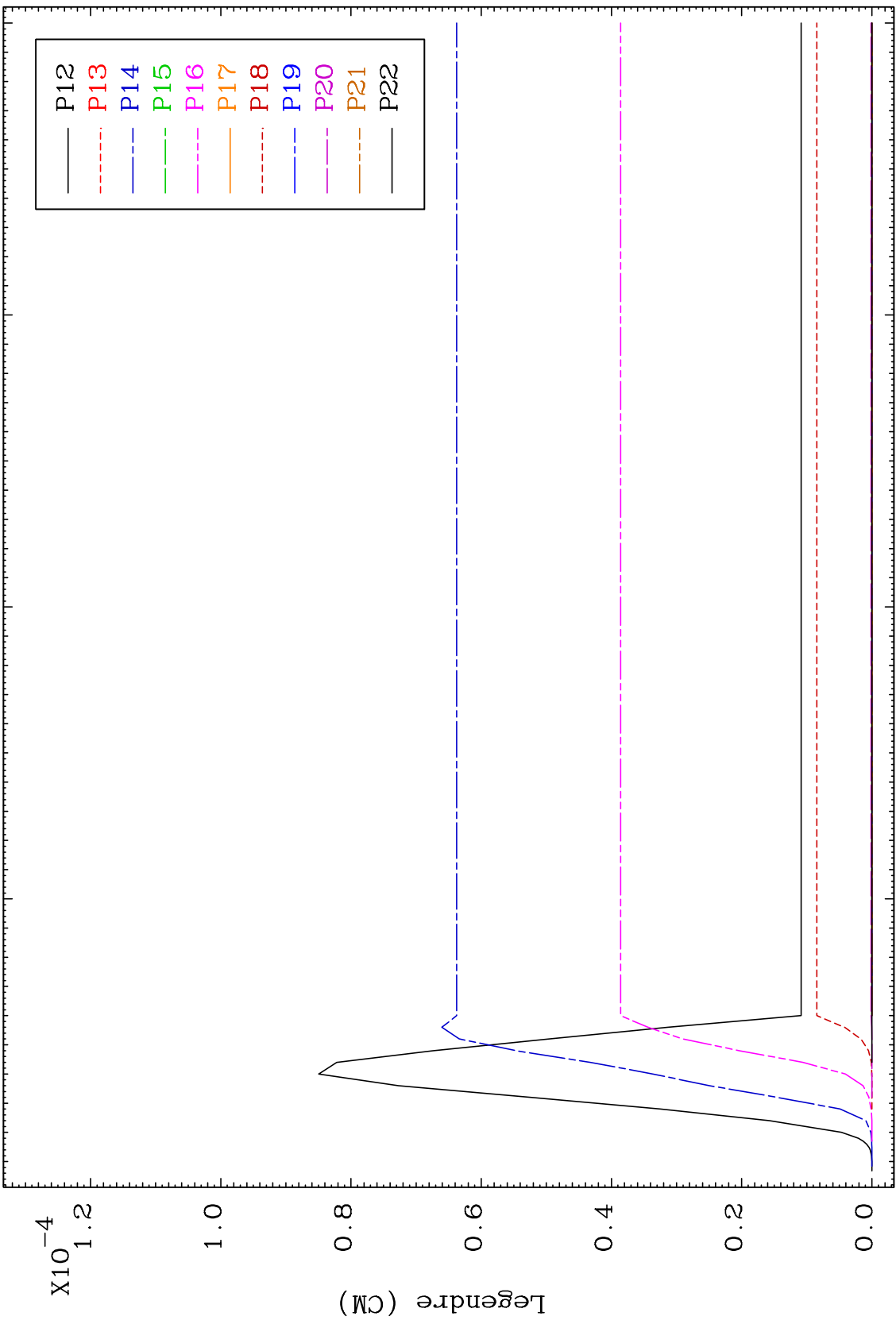
61-Pm-156

MAT 6176

MT= 78 (n,n') Level
Legendre Coefficients

61-Pm-156

$\times 10^{-4}$
1.2
1.0
0.8
0.6
0.4
0.2
0.0



113

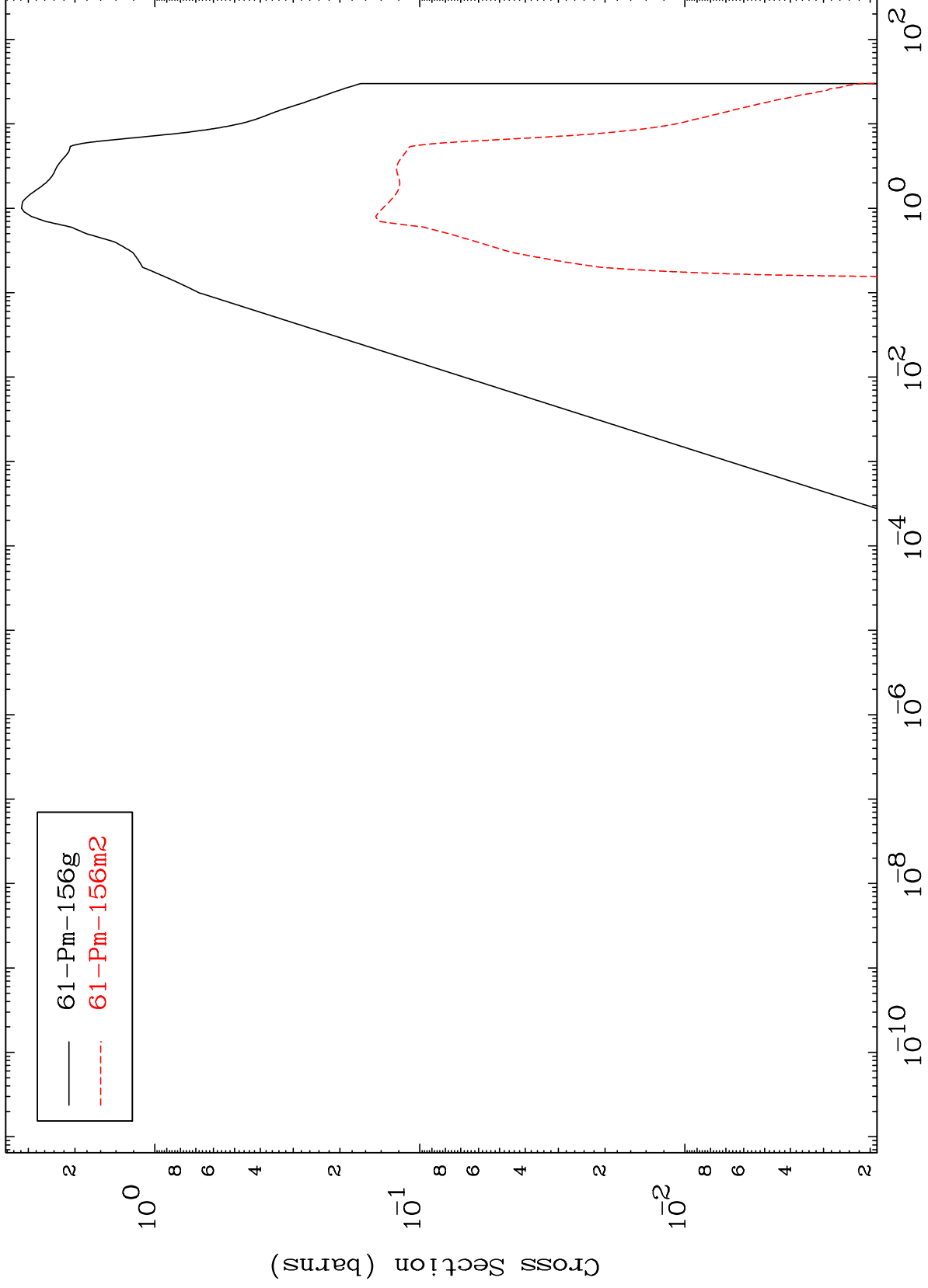
Incident Energy (MeV)

61-Pm-156

MAT 6176

Radionuclide Production Cross Section

61-Pm-156

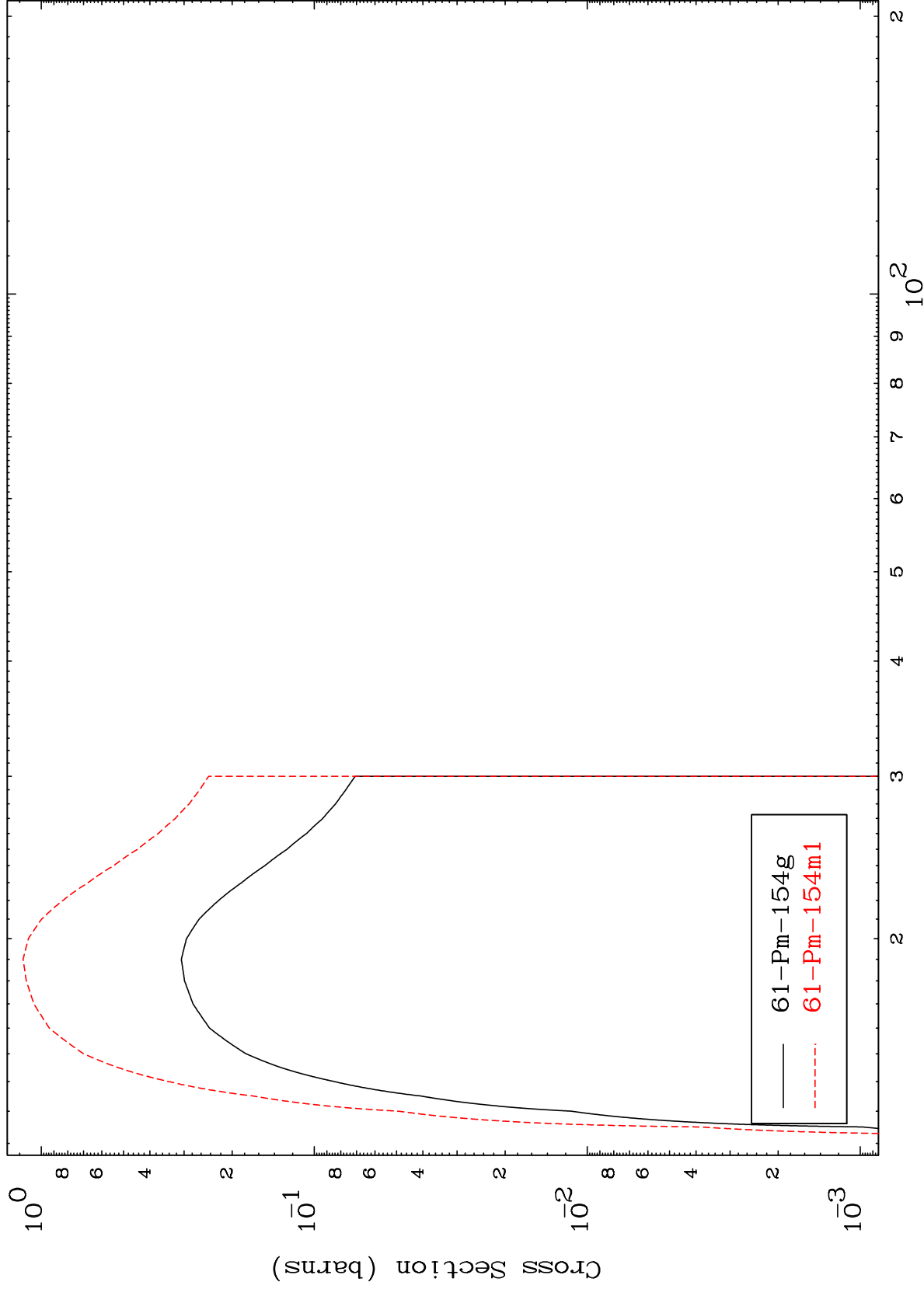


MAT 6176

(n,3n)

61-Pm-156

Radionuclide Production Cross Section



115

Incident Energy (MeV)

61-Pm-156